Appendix 10 – Environmental Assessment

DRC ENVIRONMENTAL

Preliminary Environmental Site Assessment, 135 Austin Street, Winchelsea

Robert Anthony Grant Pty Ltd

DRAFT

21 September 2018

DRC PESA 135 Austin Street Winchelsea 180918

Office Address: G6/79-109 Manningham Road, Bulleen, VIC 3105.
Email: admin@drcenviro.com.au Website: drcenviro.com.au

Preliminary Environmental Site Assessment, 135 Austin Street, Winchelsea

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Document History

Version	Status	Author	Reviewer
DRC PESA 135 Austin Street Winchelsea 210918	DRAFT	SL	PLB

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1 INTRODUCTION

DRC Environmental Pty Ltd (DRC) was engaged by TGM Group Pty Ltd to undertake a Preliminary Environmental Site Assessment (PESA) works at 135 Austin Street, Winchelsea, Victoria (the site).

It is understood that the site is subject to the planning requirements including the schedule stipulated under DPO 13. The PESA is a part of the requirements for DPO 13 in order to determine potential residual impacts from the adjacent Winchelsea Gun Club activities. The PESA was undertaken in general accordance with DRC's proposal dated 19 June 2018.

1.1 Objectives

The objectives of this PESA are to undertake a preliminary environmental site assessment to assess surficial soil conditions at the site and to evaluate potential contaminants of concerns subjects to the Gun Club activities to the immediately north of the site.

1.2 Scope of Works

The works undertaken at the site to facilitate the completion of the environmental works are summarised below.

- Site inspection;
- X-Ray Fluorescence (XRF) screening of metal levels at the site;
- Survey of potential Lead Shot impacts to surface soils at the site;
- Collecting surface soil samples at thirteen locations near the northern boundary of the site, where were consider with highest potential impacts from the Winchelsea Gun Club; and
- Analysis of surface soil samples at a NATA accredited laboratory for lead contamination; and
- Preparation of the report.

2 SITE DETAILS

The site is located approximately 95 km south west of the Melbourne CBD. For planning information regarding the site, basic and planning property reports were acquired by DRC from the State Government Victoria Land Channel website (www.land.vic.gov.au) on 18 September 2018 and copies of these reports are provided in **Appendix A**. A general summary of the information regarding the site and its surrounds is presented in **Table 2.1** below, and the location of the site is presented on **Figure 1**.

Table 2.1: General Site information

Site Location	135 Austin Street, Winchelsea Vic 3241	
Current land use zoning and planning overlays	Zone:	General Residential Zone – Schedule 1 (GRZ1)
	Overlays:	Development Plan Overlay – Schedule 13 (DPO13), and Public Acquisition Overlay 4 Schedule (PAO4)
Municipality	Surf Coast Shire Council	
Title and plan information	Lot 1 to Lot 21 on PP5864	
Site Area	Approximately 12.6 ha	
Current site use	Livestock Grazing	
Surrounding land use	A review of the Land Channel Planning Property Report indicated that the surrounding land use is; • Public Conservation & Resource Zone to the immediately north; • Public Park & Recreation Zone to the immediately north west; • General Residential Zone to the west and further north; • Low density Residential Zone to the north east; and • Farming zone to the west and south	
Proposed future use	Proposed public park to the north-western portion of the site Low density residential land uses for the eastern portion of the site	

2.1 Investigation Areas for soil

This investigation is only to assess the potential lead impacts and its extent from the adjacent Winchelsea Gun Club against its proposed future use.

According to the publicly available information and Surf Coast Planning Scheme – Amendment C083, the north-western portion of the site is proposed for the extension of the existing Eastern Reserve and the eastern portion of the site is proposed for low density residential development. Based on a review of Winchelsea Gun Club contamination maps available online on Department of Environment, Land, Water and Planning (DELWP), the previous assessment of lead impact at the Winchelsea Gun Club suggested that the concentrations of Lead shot contamination were mainly found near the center of the Winchelsea Gun Club. It is noted that lead impacts appear to be decreasing toward the southern boundary of the former Winchelsea Gun Club. By considering the proposed residential development of the site and the distribution of the Lead impacts at the Winchelsea Gun Club, the investigation area is defined in Figure 1.

The Surf Coast Planning Scheme- Amendment C083 is included in Appendix B. The map of Lead assessment at Winchelsea Gun Club is provided in Appendix C.

3 ENVIRONMENTAL SETTING

3.1 Topography

The site has an elevation of ranging from 96 to 100 m above sea level (mAHD) with a gentle slope from west to east.

3.2 Geology

A review of the Geelong 1:63,360 Geological Survey of Victoria Map indicates that the site is underlain by Quaternary Newer Volcanic (Nv1), comprising Iddingsite Labradorite basalt, Olivine labradorite basalt and Olivine basalt.

3.3 Surface Water

The closest surface water bodies within 5 km to the site include;

- Barwon RIver, approximately 600 m west;
- A group of ponds, approximately 1.2 km northwest;
- Lake Gherang Gherang Wildlife Reserve, approximately 4.9 km east;
- Wurdiboluc Reservoir, approximately 4 km southeast; and
- An unnamed water body groups, approximately 3 km northwest.

No surface water bodies exist on the site.

3.4 Hydrogeology

A review of the Department of Environment and Primary Industries Groundwater Resource Report for the site indicates that the site is underlain by the Tertiary Aquifer mainly comprised of marine sand. Total Dissolved Solids (TDS) concentrations ranging between 1,001 mg/L and 3,500 mg/L are expected in groundwater underlying the site. This TDS range places the site within Segment B of the groundwater beneficial use segments outlined in the 1997 State Environment Protection Policy (SEPP), Groundwaters of Victoria (Groundwater SEPP). Based on this classification, the following beneficial uses to be protected are:

- Potable Mineral Water;
- Irrigation;
- Stock Watering;
- Industrial Water;
- Maintenance of Ecosystems;
- Primary Contact Recreation; and
- Buildings and Structures.

A groundwater database search using the Department of Environment and Primary Industries (DEPI) website (http://data.water.vic.gov.au/monitoring.htm) was undertaken by DRC on 20 September 2018. The search identified a total of 8 registered groundwater bores within a 2 km radius of the site.

Of the 8 groundwater bores, two were used for extractive purposes, which includes stock and domestic uses. The closest extractive bore to the site was located approximately 1171 m north of the site and was used for stock purposes (bore ID 74004). The remaining six bores were used for groundwater investigation.

The groundwater bores within a 2 km radius of the site are presented in **Table 3.1** below.

Table 3.1: Registered groundwater bores within 2 km of the site

Bore ID	Location from Site (Approx.)	Bore Depth (mbgl)	Use	Operational Status	Lithology
111975	1458	9	Groundwater investigation	Used	Lithology not provided.
111976	1535	9	Groundwater investigation	Used	Lithology not provided.
111977	1272	9	Groundwater investigation	Used	Lithology not provided.
111978	1293	8	Groundwater investigation	Used	Lithology not provided.
111979	1072	4.5	Groundwater investigation	Used	Lithology not provided.
111980	913	8	Groundwater investigation	Used	Lithology not provided.
74004	1171	7.32	Stock	Used	Clay (5.44 – 7.32)
WRK980334	1437	12.5	Domestic and stock	Used	Lithology not provided.

4 SITE INSPECTION

DRC undertook a site inspection in June 2018.

The site presented as vacant grazing land with grass coverage.

DRC staff did not observe lead shot impacts, staining observed wastes or evidence of anthropogenic contamination to soils at the site.

DRC did not observe any infrastructure, buildings, sheds or other man-made structure at the site.

A photo log is supplied as Appendix H for with observations of the site as assessed by DRC.

5 SITE HISTORY REVIEW

According to the Surf Coast Planning Scheme Amendment C83 and a review of historical aerial photography, the site was previously zoned as Farming Zone (FZ) and likely used as livestock grazing. A review of publicly available information did not indicate high environmental risk activities conducted on-site.

5.1 Environmental Protection Authority

5.1.1 EPA Priority Sites Register

A search of the EPA Victoria Priority Sites Register (PSR) was undertaken on 20 September 2018 to identify whether the site or any surrounding sites were listed as priority sites by EPA Victoria.

The search indicated that the site is not listed on the EPA Victoria PSR. However, the Gun Club to the north of the site was listed as the only EPA Victoria Priority Site in the municipal. The information of this search is provided below.

Table 5.1: Priority Site in Surf Coast Shire Council

Suburb	Address	Issue	Notice Number
Winchelsea	84 Hopkins Street CA 33 Township of Winchelsea	Gun, pistol or rifle range. Requires assessment and/ or clean up	0090008921, 0090008985

A copy of the extract from the PSR is provided in **Appendix D**.

5.1.2 EPA Audit Reports

A search of the EPA Victoria list of Certificates and Statements of Environmental Audit and 53V Audit Reports (www.epa.vic.gov.au) for Surf Coast Shire Council on 20 September 2018, found one Environmental Audit within a 2 km radius of the site. The land subject to the Environmental Audit is identified as 235 Austin Street where locate to the immediately south-west of the site.

5.1.3 EPA Victoria Licensed Sites

A search of the EPA Victoria list of Licenses for Scheduled Premises (www.epa.vic.gov.au) in Moorabbin and surrounding suburbs was undertaken on 20 September 2018. The search found no licensed sites listed on the EPA website within a 2 km radius of the site.

5.1.4 EPA Groundwater Quality Restricted Use Zones

A search of the EPA Victoria Groundwater Quality Restricted Use Zones (GQRUZ) interactive map (www.epa.vic.gov.au) was undertaken on 20 September 2018. The EPA GQRUZ interactive map highlights areas in Victoria where there has been historic groundwater pollution as a result of the previous industrial activity.

The search results indicate that the site is not in a GQRUZ. However, there was no property within 2 km of the site that is included in a GQRUZ.

5.2 Summary of Site History Review

The site history review indicated the following with regards to potential contamination at the site:

- The Winchelsea Gun Club located to the immediately north of the site is listed as the Priority Sites for requirements of assessment and clean up. This investigation mainly focuses on the potential Lead impacts originated from this site.
- A search of the EPAs list of Certificates and Statements of Environmental Audit and Audit Reports identified the land to the immediately south of the site is subjected to the Environmental Audit.

However, this investigation is only limited to the off-site lead impacts from the north of the site. Investigation associated with the environmental audit is not included in this assessment.

- A search of EPA licensed sites did not identify any licensed sites within a 2 km radius of the site.
- A search of the GQRUZ site identified a low risk of contamination from GQRUZ sites within a 2 km radius of the site.

6 ENVIRONMENTAL WORKS METHODOLOGY

6.1 Relevant Documents

The soil assessments works were undertaken in general accordance with the following:

- Australian Standards including:
  - AS4482.1 (2005) *Guide to the investigation and sampling of sites with potentially contaminated soil, Part 1: Non-volatile and semi volatile compounds* (AS4482.1); and
  - AS4482.2 (1999) *Guide to sampling and investigation of potentially contaminated soil, Par 2: Volatile substances* (AS4482.2).
- EPA (1970) Environment Protection Act 1970 (Vic);
- EPA Victoria, Publication 759.3 (December 2015) Environmental Auditor (Contaminated Land): Guidelines for Issue of Certificates and Statements of Environmental Audit;
- National Environment Protection (Assessment of Site Contamination) Measure 1999; and
- National Environment Protection (Assessment of Site Contamination) Amendment Measure 2013 (No. 1).

6.2 Chemicals of potential concern (COPCs)

COPCs have been identified for the site, as described in **Table 6-1** below, based on the contaminants based on the historical commercial/industrial use of the site.

Table 6-1: Contaminants of Potential Concern Applicable to this Site

Site Use	Contaminants of Potential Concern	Likely media in which COPCs may be identified at the subject site
Offsite		
Historical land use as a gun club to the immediately north of the site	Lead	Ground surface and surface soils

Based on these findings, DRC undertook investigation works to assess potential lead contamination to the underlying environment.

6.3 Data quality objectives

To assist with the design of the assessment program the following data quality objectives have been considered.

Table 6-2: Data Quality Objectives

Step	Objective	Site Relevant Comments
1	State the problem	Determine whether the potential off-site impacts from immediately north cause unacceptable risk for the proposed residential use of the site.
2	Identify the decision	Collection of data to determine whether the potential impacts from off-site exist and requires further considerations or recommend that no further investigation is necessary.
3	Identify inputs to the decision	The completion of sufficient soil sampling to provide confidence in a dataset to characterise levels of potential contamination.
4	Define the boundaries of the study	The boundary of the site is defined as the northern portion of the site where closest to the south boundary of the Winchelsea Gun Club. The boundary is provided in Figures 1 and 2.

5	Develop a decision rule	Have we determined the extent of contamination with a degree of certainty as expected of environmental assessments? If the concentration of the COPCs higher than the adopted human health investigation levels, further assessment may be required; otherwise, no further assessment is necessary
6	Specify limits on decision errors	Quality assurance and quality control measures based on AS4482.1 and IWRG 701.
7	Optimise the design for obtaining data	*Undertaking the investigation in a manner and to a level of accuracy and confidence as described in NEPM documentation.* An iterative approach to data collection has been adopted with a targeted soil sampling to establish site conditions with reference to the sites existing use and potential for development. All sample locations have intersected and sampled natural ground.

6.4 Soil Sampling

The soil sampling for the site was conducted in the following manner:

- Sampling of thirteen (13) locations at the ground surface in grids across the investigation areas. Sample locations are indicated on the attached **Figure 1**;
- Analysis of all thirteen (13) samples for Lead;
- Field logging including lithology and geology encountered, photographs of the sub-surface conditions and observations for potential contamination;
- X-Ray Fluorescent (XRF) screening of soil samples for metals;
- Collection of quality control (QC) samples including duplicate and inter-lab split samples at a rate of 1 sample pair per 20 samples;
- Preservation of samples with ice during field activities and transport from the field to the laboratory;
- Transportation of samples to a NATA accredited laboratory with accompanying chain of custody (COC) documentation; and
- Analysis by NATA accredited laboratories.

6.5 Decontamination Procedures

Non-dedicated sampling equipment would be disassembled (where applicable), washed using Decon 90 solution and rinsed with potable water and then de-ionised water between each sampling location. Disposable equipment (i.e. nitrile gloves, hydrasleeves) does not require decontamination due to its single use.

6.6 Quality Assurance and Quality Control Objectives

Table 6-3 summarises QA/QC objectives for this assessment. These objectives are consistent with current EPA guidance and NEPM objectives and are considered appropriate for this investigation.

Table 6-3: Summary of QA/QC Objectives

Item	Objective
Comparison of field and analytical data	Agreement between visual, olfactory & PID measurements with laboratory results, where contamination is suspected in the field, laboratory analysis results support the observations.
Calibration of field instruments	Relevant equipment to be used to be supplied with certificates confirming equipment is in calibration. It is noted that the XRF instrument utilised for this survey requires self calibration against a known standard daily, prior to operation.
Chain of Custody documentation	Signed and complete for all samples analysed.
Sample analysis and extraction holding times	Compliant with guides provided by the laboratory (that are generally NEPM compliant).

Analysis of inorganic duplicate samples	The RPD of the duplicate sample (DUP3_220818) is 55% The RPD of the inter-lab sample (SPL3_220818) is within 50%. The RPDs results is attached in Table 2.
Analysis of organic duplicate samples	N/A
Analysis of field blanks, including trip and equipment blanks as appropriate	N/A
Analysis of laboratory method blanks	No contamination of blanks.
Analysis of spike recoveries	Recoveries within the acceptable range of 70-130%.
Analysis of laboratory duplicates	RPDs within the acceptable range of 30%.

Where QC results are outside those specified above, a specific investigation of the cause has been completed, including an interpretation of the potential impacts upon the reliability of the dataset.

Based on the results of the QA/QC program as detailed above, the following is concluded:

- The internal laboratory quality control program reported acceptable results or reported minor discrepancies that are unlikely to affect the overall data set quality.
- The field sampling procedure was carried out in general accordance with the DRC QA/QC program.
- The RPD of the duplicate sample (DUP3_220818) is 55%. However, the RPD is only considered where the concentration is greater than EQL. In this case, the lead concentration (5.1 mg/kg) is only slightly above EQL (5 mg/kg). Moreover, the RPD of the inter-lab sample is within the acceptable range. It is considered that the RPD is caused by soil sample heterogeneity. When the result with the highest concentrations was assessed, the high RPD was not considered to impact on the integrity of the data set.
- Laboratories used were NATA accredited for the analyses performed.
- Samples were analysed within the appropriate holding times.

DRC consider that the sampling and analytical programs were acceptable and the results obtained are of reliable quality.

7 ASSESSMENT FIELDWORKS SUMMARY

Fieldworks conducted by DRC were undertaken on 22 August 2018. All works were undertaken by an Environmental Scientist from DRC, who is trained and experienced in soil investigations. The site walkover and safety induction has been completed. XRF was used to identify anomalous lead concentrations that may potentially indicate soil contamination. Visual observations of potential contamination, lead shot, stained soils and odorous soils were also recorded (if identified).

8 ASSESSMENT CRITERIA

8.1 Soil Assessment

8.1.1 Adopted Soil Assessment Criteria

For considerations of the proposed residential use of the site, primary reference has been made to the Health Investigation Levels (HILs) for residential A from ASC NEPM. This guideline was selected primarily for the assessment of COPC from the Winchelsea Gun Club.

It is considered that the Site is unlikely impacted by the adjacent land uses from the COPCs regarding human health if the levels of analytes are reported below the adopted soil assessment criteria.

9 FIELD QA/QC PROGRAM

A Quality Control / Quality Assurance (QA/QC) program was conducted by DRC at the site in accordance with the current regulatory requirements.

Specific elements of the QA/QC program included:

- The use of appropriately qualified/trained environmental scientists to perform the intrusive works;
- The use of standardised field sheets to record the findings of the site assessment activities;
- Undertaking appropriate equipment decontamination and/or avoiding the use of re-usable items for collection of samples in order to avoid/minimise sample cross-contamination and to ensure confidence in the sampling methodology employed, which in-turn allows the quantitative data-set to be relied upon;
- The collection and analysis of Quality Control samples;
- The use of Chain of Custody procedures to ensure the traceability of sample transport and handling (**Appendix E**);
- The use of laboratories accredited by the National Association of Testing Authorities (NATA) for the analysis of soil, groundwater and surface water samples collected during the assessment works. As part of their NATA accreditation, both the primary and secondary laboratories perform a number of internal laboratory procedures to ensure precision and accuracy of laboratory sample preparation and analytical techniques are sufficient. Internal laboratory procedures include the following:
  - Internal duplicate analysis of samples for comparison of results to demonstrate precision;
  - Laboratory standards including matrix spike samples, laboratory control samples, certified reference material and surrogates are conducted as a basis to demonstrate accuracy; and
  - Internal laboratory blank samples are run to assess the potential for laboratory equipment errors.
- All sample analyses to be conducted using NATA registered methods in accordance with ANZECC (1992) and NEPM (2013) guidelines;
- Data quality objectives (DQO) are used for the assessment of the field and laboratory QA/QC analytical data and are outlined in the relevant sections within Sampling and Analysis Plan submitted for the site. Where any of the data quality indicators are not achieved for particular samples, steps were taken to rectify the non-conformance, if possible; and
- An assessment of the quality assurance program is required to be made in terms of completeness. The completeness is equal to the percentage of valid quality assurance and quality control results. The target for overall completeness is a minimum of 95%. A data completeness of less than 95% may be accepted where it can be justified based on unique issues such as:
  - Prevailing site conditions.
  - Data confidence required for assessment.
  - Testing methods adopted.

10 SOIL ASSESSMENT

10.1 Field observation and XRF screening

Works have been undertaken by DRC and included the sampling of thirteen locations across the investigation areas and XRF screening of metal impacts.

The top soils were described as SAND and clayey SAND with no observed lead shot on the ground surface.

XRF screening of thirteen locations has not shown indications of potential soil impacts or significant high concentrations of metal contaminations.

Records of field observation and XRF Screening records described above have included as **Appendix F** to this report.

10.2 Soil Assessment Analytical Results

Tabulation of all analytical results is provided in the **Tables Section** at the end of this report. **Figure 2** provides locations of where samples were collected.

NATA certified analytical laboratory reports for DRC collected data are provided in **Appendix G**.

10.3 Summary of Soil Contamination

The field observation and XRF screening conducted by DRC have not shown visual indication of contaminations for the investigation areas. Based on the analytical results for the soil samples collected in this investigation, the lead concentrations from all samples were in the range of below detection levels to 9 mg/kg. Concentrations of lead were not identified above adopted assessment guidelines for the protection of human health in the context of a low-density residential land use site.

11 ASSESSMENT CONCLUSIONS

The site subject to this report, namely 135 Austin Street, Winchelsea, has been subjected to meet part of the planning requirements of DPO13 to conduct preliminary environmental site assessment associated to potential off-site impacts from Winchelsea Gun Club.

According to the publicly available information and Surf Coast Planning Scheme – Amendment C083, the north-western portion of the site is proposed for the extension of the existing Eastern Reserve and the eastern portion of the site is proposed for low density residential development. Therefore, this investigation only focuses on the portion of the site where is proposed for future residential uses and in the vicinity of the site boundary of the Winchelsea Gun Club. The investigation areas are defined in **Figure 1**.

The outcomes of the investigation recently completed at the site and reported, summarized or referred to by this document, indicate the following:

- The site was previously zoned as Farming land and used as livestock grazing. The planning overlays suggest the proposed land use for the north-western portion of the site is recreational and the remaining areas are residential. The surrounding land uses include low density residential, farming and recreational;
- Contamination plans and maps (as described in Section 2.1) for the Winchelsea Gun Club indicate decreasing levels of lead impact on the opposing side of Witcombe Road, thus indicating it is unlikely that lead impacts have migrated to the subject land;
- The information gathered from the environmental setting of the site does not provide indications of the nearby sensitive receptor or environmentally significant areas, which could be affected by the potential impacts from Lead;
- The land parcel to the immediately south of the site was subjected to environmental audit on EPA Victoria and is not considered to pose a risk to the subject land; and
- No visual and/or olfactory evidence of contamination was observed during the site inspection and XRF screening. Analytical results of the Lead concentrations from representative samples were all below adopted assessment guideline for human health.

The following table has been reproduced from the Department of Sustainability and Environment (DSE now DPCD) *General Planning Practice Note - Potentially Contaminated Land*, for review with respect to the content and findings of this report. It is noted that the proposed land use of the site is for residential and recreational, thus this PESA has focused on this proposed land use of the site and to establish contamination risk, and the sites defined the potential for contamination.

Table 8.1 Assessment Matrix as per General Planning Practice Note - Potentially Contaminated Land

Proposed Land Use	Potential For Contamination		
	High	*Medium*	*Low*
Sensitive Uses			
Child care centre, pre-school or primary school	A	B	C
Dwellings, residential buildings etc.	A	B	C
Other Uses			
Open space	B	C	C
Agriculture	B	C	C
Retail or office	B	C	C
Industry or warehouse	B	C	C

Key
A: Require an environmental audit as required by Ministerial Direction No. 1 or the Environmental Audit Overlay when a planning scheme amendment or planning permit application would allow a sensitive use to establish on potentially contaminated land.
An environmental audit is also strongly recommended by the SEPP where a planning permit application would allow a sensitive use to be established on land with 'high potential' for contamination.
B: Require a site assessment from a suitably qualified environmental professional if insufficient information is available to determine if an audit is appropriate. If advised that an audit is not required, default to C.
C: General duty under Section 12(2)(b) and Section 60(1)(a)(iii) of the Planning and Environment Act 1987.

DRC notes that the absence of any lead contamination as determined by this investigation, DRC considers the site can be confirmed as a low contamination risk to the proposed future development, thus a "C" rating is appropriate for this site with reference to impacts from the Winchelsea Gun Club.

DRC therefore recommend that:

- The condition of the land at this site **is suitable for sensitive land uses** including school or childcare center uses and is unlikely to be affected by residual Lead impacts from Winchelsea Gun Club;
- Further environmental assessment of the site in regard to Lead impacts is **not required**;
- Based on the findings of this assessment report, an environmental audit is **not required** for this site for its intended use in regard to Lead impacts; and
- Remedial actions of Lead contamination are **not required** for this site.

12 STATEMENT OF LIMITATIONS

This document has been prepared based on a specific brief provided to DRC Environmental by Robert Anthony Grant Pty Ltd. This document has been prepared with care and consideration to acceptable standards and current industry practice. This document is based on sub-surface conditions that may be variable which may result in changes to procedures, advice, recommendations or professional conclusions established by this document. DRC Environmental therefore reserve the right to change or withdraw this report.

DRC Environmental recommends only suitably qualified and experienced contractors and consultants should undertake technical assessment of this document and attempt contaminated land remediation projects.

Report prepared by:

Patrick Baldwin
Patrick Baldwin CEnvP SC
Principal Environmental Engineer / Director
Certified Environmental Practitioner – Site Contamination Specialist
DRC Environmental Pty Ltd
21 September 2018

PLANNING & ENVIRONMENT ACT 1987
SURF COAST PLANNING SCHEME
This Development Plan complies with the requirements of Clause 43.04 of the Surf Coast Planning Scheme

Approval Number: PG19/0086
Date: 4/08/2021 Sheet No: 20 of 105

Digitally Signed by the Responsible Authority
Karen Hose

THIS IS NOT A BUILDING APPROVAL

FIGURES

DRC ENVIRONMENTAL
DEVELOPMENT REMEDIATION CONSULTANTS

LEGEND:

- Approximate Site Boundary
- Proposed recreational use area
- Proposed residential use area
- Investigation area

N

NTS
Scale in Metres

TITLE:
Investigation Area

PROJECT:
135 Austin Street, Winchelsea

CLIENT:
TGM Group

DATE: September 2018
DESIGNED: REC
DRAWN: REC
SOURCE: Nearmap

FIGURE: 1

A4 size

DRC ENVIRONMENTAL
DEVELOPMENT REMEDIATION CONSULTANTS

LEGEND:

Approximate 0.5 ha area investigated for lead shot impact

Approximate surface soil sample locations

N

NTS
Scale in Metres

TITLE:
Lead Shot Surface Sample Location Plan

PROJECT:
135 Austin Street, Winchelsea

CLIENT:
TGM Group

DATE: September 2018
DESIGNED: REC
DRAWN: REC
SOURCE: Nearmap

FIGURE: 2

A4 size

TABLES

				Field_ID	DUP3_220818	SPL3_220818	SS01	SS02	SS03	SS04	SS05	SS06	SS07	SS08	SS09	SS10	SS11	SS12	SS13
				Sampled_Date-Time	22/08/2018	22/08/2018	22/08/2018	22/08/2018	22/08/2018	22/08/2018	22/08/2018	22/08/2018	22/08/2018	22/08/2018	22/08/2018	22/08/2018	22/08/2018	22/08/2018	22/08/2018
				Lab_Report_Number	614096	EM1813637	614096	614096	614096	614096	614096	614096	614096	614096	614096	614096	614096	614096	614096
				NEPM 2013 Table 1A(1) HILs Res A Soil															
Chem_Group	**ChemName**	**Units**	**EQL**																
Inorganics	Moisture Content (dried @ 103°C)	%	0.1		25	22.8	23	21	25	17	11	17	21	20	19	17	17	14	12
Lead	Lead	mg/kg	5	300[#1]	9	5	5.7	5.5	5.1	<5	<5	<5	<5	6.1	5.4	<5	<5	<5	<5

Env Stds Comments

#1:Lead: HILs A,B,C based on blood lead models (IEUBK & HIL D on adult lead model for where 50% bioavailability considered. Site-specific bioavailability should be considered where appropriate.

Field Duplicates (SOIL)
Filter: SDG in('23 Aug 2018')

SDG	23-Aug-18	23-Aug-18		23-Aug-18	ALSE-Melbourne 27-Aug-18	
Field ID	SS03	DUP3_220818	**RPD**	SS03	SPL3_220818	**RPD**
Sampled Date/Time	22/08/2018	22/08/2018		22/08/2018	22/08/2018	

Chem_Group	ChemName	Units	EQL						
Inorganics	Moisture Content (dried @ 103°C)	%	1 (Primary): 0.1 (Interlab)	25.0	25.0	0	25.0	22.8	9
Lead	Lead	mg/kg	5	**5.1**	**9.0**	**55**	5.1	5.0	2

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 50 (1-10 x EQL); 50 (10-30 x EQL); 50 (> 30 x EQL))
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

APPENDIX A – PROPERTY REPORTS

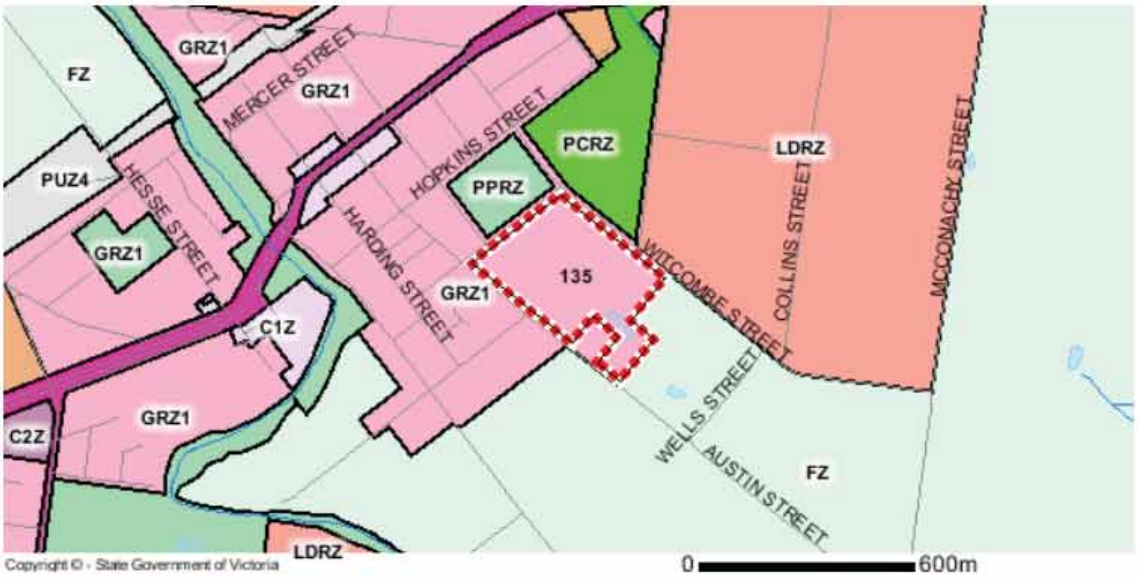
Planning Property Report

from www.planning.vic.gov.au on 18 September 2018 01:59 PM

Address: 135 AUSTIN STREET WINCHELSEA 3241
Crown Description: Allot. 1 Sec. 21 TOWNSHIP OF WINCHELSEA
Local Government (Council): SURF COAST **Council Property Number:** 88800
Directory Reference: VicRoads 525 P3

Planning Zone

GENERAL RESIDENTIAL ZONE (GRZ)
GENERAL RESIDENTIAL ZONE - SCHEDULE 1 (GRZ1)



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

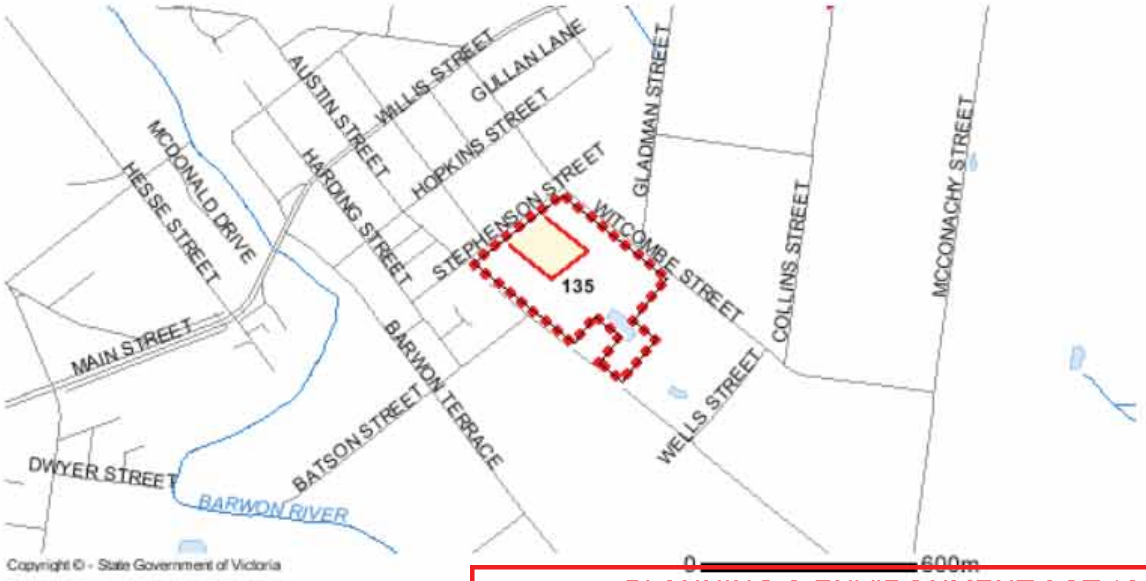
Zones Legend

- ACZ - Activity Centre
- B1Z - Commercial 1
- B2Z - Commercial 1
- B3Z - Commercial 2
- B4Z - Commercial 2
- B5Z - Commercial 1
- C1Z - Commercial 1
- C2Z - Commercial 2
- CA - Commonwealth Land
- CCZ - Capital City
- CDZ - Comprehensive Development
- DZ - Dockland
- ERZ - Environmental Rural
- FZ - Farming
- GRZ - General Residential
- GWAZ - Green Wedge A
- GWZ - Green Wedge
- IN1Z - Industrial 1
- IN2Z - Industrial 2
- IN3Z - Industrial 3
- LDRZ - Low Density Residential
- MUZ - Mixed Use
- NRZ - Neighbourhood Residential
- PCRZ - Public Conservation & Resource
- PDZ - Priority Development
- PPRZ - Public Park & Recreation
- PUZ1 - Public Use - Service & Utility
- PUZ2 - Public Use - Education
- PUZ3 - Public Use - Health Community
- PUZ4 - Public Use - Transport
- PUZ5 - Public Use - Cemetery/Crematorium
- PUZ6 - Public Use - Local Government
- PUZ7 - Public Use - Other Public Use
- PZ - Port
- R1Z - General Residential
- R2Z - General Residential
- R3Z - General Residential
- RAZ - Rural Activity
- RCZ - Rural Conservation
- RDZ1 - Road - Category 1
- RDZ2 - Road - Category 2
- RGZ - Residential Growth
- RLZ - Rural Living
- RUZ - Rural
- SUZ - Special Use
- TZ - Township
- UFZ - Urban Floodway
- UGZ - Urban Growth
- Urban Growth Boundary
- Railway
- Tram
- River, stream
- Lake, waterbody

Planning Overlays

DEVELOPMENT PLAN OVERLAY (DPO)
DEVELOPMENT PLAN OVERLAY - SCHEDULE 13 (DPO13)

PUBLIC ACQUISITION OVERLAY (PAO)
PUBLIC ACQUISITION OVERLAY 4 SCHEDULE (PAO4)



PLANNING & ENVIRONMENT ACT 1987
SURF COAST PLANNING SCHEME
This Development Plan complies with the requirements of Clause 43.04 of the Surf Coast Planning Scheme

Approval Number: PG19/0086
Date: 4/08/2021 Sheet No: 29 of 105

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Karen Hose

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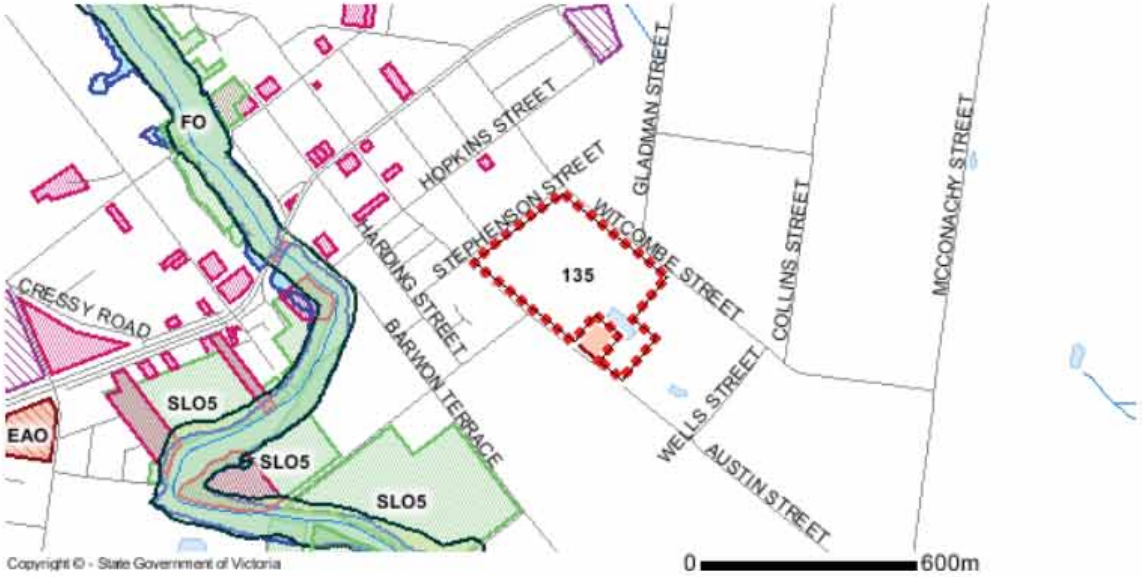
Planning Overlays

OTHER OVERLAYS

Other overlays in the vicinity not directly affecting this land

DESIGN AND DEVELOPMENT OVERLAY (DDO)
ENVIRONMENTAL AUDIT OVERLAY (EAO)
ENVIRONMENTAL SIGNIFICANCE OVERLAY (ESO)
FLOODWAY OVERLAY (FO)
HERITAGE OVERLAY (HO)
LAND SUBJECT TO INUNDATION OVERLAY (LSIO)
SIGNIFICANT LANDSCAPE OVERLAY (SLO)



Overlays Legend

- AEO - Airport Environs
- BMO - Bushfire Management
- CLPO - City Link Project
- DCPO - Development Contributions Plan
- DDO - Design & Development
- DDOPT - Design & Development Part
- DPO - Development Plan
- EAO - Environmental Audit
- EMO - Erosion Management
- ESO - Environmental Significance
- FO - Floodway
- HO - Heritage
- ICPO - Infrastructure Contributions Plan
- IPO - Incorporated Plan
- LSIO - Land Subject to Inundation
- MAEO1 - Melbourne Airport Environs 1
- MAEO2 - Melbourne Airport Environs 2
- NCO - Neighbourhood Character
- PO - Parking
- PAO - Public Acquisition
- RO - Restructure
- RCO - Road Closure
- SBO - Special Building
- SLO - Significant Landscape
- SMO - Salinity Management
- [illegible] - State Resource
- VPO - Vegetation Protection

Railway — Tram — River, Stream — Lake, Reservoir

Note: due to overlaps some colours on the maps may not match those in the legend.

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Further Planning Information

Planning scheme data last updated on 5 September 2018.

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, local, particular and general 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 Planning Schemes Online

This report is NOT a **Planning Certificate** issued pursuant to Section 199 of the Planning & 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

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 Planning Maps Online

For other information about planning in Victoria visit www.planning.vic.gov.au

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APPENDIX B – COUNCIL PLANNING SCHEME AMENDMENT C83

Planning and Environment Act 1987

SURF COAST PLANNING SCHEME

AMENDMENT C83

EXPLANATORY REPORT

Who is the planning authority?

This amendment has been prepared by the Surf Coast Shire Council, who is the planning authority for this amendment.

The amendment has been made at the request of Fadgyas Planning Associates P/L on behalf of Mr R Guye, owner of the subject land.

Land affected by the amendment

The amendment applies to land at 135-235 Austin Street, Winchelsea (refer to Figure 1) The site is approximately 13.4ha.

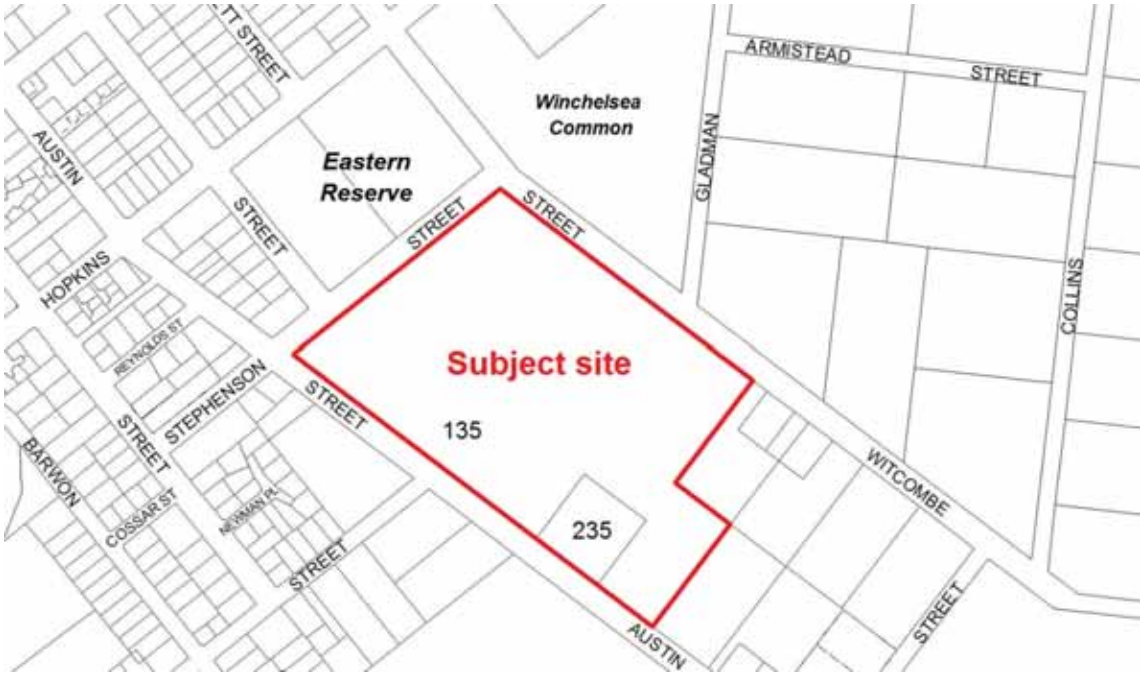

Figure 1 – The Subject Site, 135-235 Austin Street, Winchelsea

What the amendment does

The amendment proposes to rezone the subject land to enable residential development to occur in the "short term residential growth corridor" identified in the Winchelsea Strategy (Clause 21.09 of the Surf Coast Planning Scheme).

Specifically, the amendment seeks to:

- rezone the land from Farming Zone (FZ) to General Residential Zone (GRZ);
- apply the Development Plan Overlay and associated Schedule 13 (DPO13);
- apply the Public Acquisition Overlay (PAO) over a portion of the land required for the extension of the Eastern Reserve and include this land in the associated schedule as PAO4; and

- amend the Winchelsea Framework Plan found at Clause 21.09 Winchelsea Strategy to include the subject land inside the Winchelsea Township Boundary.

The amendment does not seek to change the existing Environmental Audit Overlay (EAO), which applies to 235 Austin Street, Winchelsea.

Strategic assessment of the amendment

- **Why is the amendment required?**

  The amendment is required to facilitate the development of the land for residential purposes in accordance with Clause 21.09 'Winchelsea Strategy' of the Surf Coast Planning Scheme. The Winchelsea Strategy is based on the Winchelsea Structure Plan 2021, which was adopted by Council in 2006, and provides the strategic planning framework for the future growth and development of Winchelsea.

  Amendment C83 also allows for part of the subject land to be set aside for the extension of Eastern Reserve, identified in the Winchelsea Strategy as a longer term requirement to cater for the active recreational pursuits of the community, and in particular a second sporting oval.

- **How does the amendment implement the objectives of planning in Victoria?**

  The amendment assists in the implementation of the objectives of planning in Victoria by providing for the orderly development of the land, the orderly provision and coordination of public utilities, and a development contribution toward open space and infrastructure to ensure there is a fair distribution of these costs.

- **How does the amendment address the environmental effects and any relevant social and economic effects?**

  Environmental effects

  The site contains only a small number of indigenous trees with conservation value. The amendment requires that a Development Plan be submitted prior to any subdivision of the land occurring. It is proposed to include a requirement that the Development Plan must show a lot design response which incorporates the protection of the remnant large trees identified as significant in the Mark Trengove 2010 Vegetation Net Gain Assessment report, submitted as part of the proponent's application.

  Low level contamination from lead shot, arising from the activities of the Winchelsea Gun Club which previously operated from the nearby Winchelsea Common, has been identified on a small portion of the site earmarked for the future extension of Eastern Reserve. To ensure that the extent of contamination and any clean-up required is clear and transparent for future users of the site, it is proposed to require an Environmental Site Assessment and Site Remediation Plan to be submitted as part of the Development Plan.

  The EAO currently applies to the land known as 235 Austin Street (refer to Figure 1 above), which is approximately 8,500 square metres in area. The EAO applies to the land as it was formerly used as a night soil depot and for general waste disposal – uses which ceased in the late 1930s. The land has been used for grazing for the past 30 years or more. An Environmental Audit was undertaken for the land in 2011 to determine its suitability for residential development into the future. The Audit concluded that "*in order for a Certificate of Environmental Audit to be issued for the site, all aesthetically unsuitable soils and materials would have to be removed from the site and an environmental audit conducted to confirm removal*". For this reason it is not proposed to remove the EAO through this amendment process to ensure that the land is remediated prior to any sensitive use being permitted.

Social and economic effects

The amendment will facilitate residential development that can maximise the use of existing infrastructure and limit the need to augment infrastructure. As noted above, it also allows for part of the subject land to be set aside for the extension of Eastern Reserve to cater for active recreational pursuits of the community into the future, and in particular a second sporting oval.

Future developers of the land will commit to making a contribution to the cost of future physical and community infrastructure needs of the residents via a Section 173 Agreement.

- **Does the amendment address relevant bushfire risk?**

  The amendment does not address bushfire risk as the site is not affected by any known threat of wild fire.

- **Does the amendment comply with the requirements of any Minister's Direction applicable to the amendment?**

  The amendment is affected by Minister's Direction No. 1 Potentially Contaminated Land, as a portion of the subject site is known to be contaminated. The rezoning of the land to Residential 1 would allow sensitive uses to occur on the land.

  The amendment complies with Minister's Direction No. 1 because the existing EAO will be retained over the portion of land as discussed above. The EAO requires that the relevant environmental audit certificates are issued in accordance with the *Environmental Protection Act 1970*, prior to any sensitive use commencing.

  The strategic assessment of the amendment is consistent with the Ministerial Direction No. 11.

  The amendment is consistent with the Ministerial Direction on the Form and Content of Planning Schemes under section 7(5) of the *Planning and Environment Act 1987*.

- **How does the amendment support or implement the State Planning Policy Framework and any adopted State policy?**

  The amendment implements the State Planning Policy Framework (Clause 11 Settlement and 11.02-1 Supply of urban land) by assisting Council to accommodate projected population growth in the Shire.

  The amendment is consistent with Clause 11.05-2 (Melbourne's hinterland areas) as it proposes urban development adjacent to existing urban development within the town boundary.

  The amendment is consistent with Clause 16.01 (residential development) as it proposes to facilitate residential development within close proximity to existing town services.

- **How does the amendment support or implement the Local Planning Policy Framework, and specifically the Municipal Strategic Statement?**

  The amendment implements Clause 21.09 Winchelsea Strategy of the Local Planning Policy Framework (LPPF), by facilitating the development of the land for urban purposes in accordance with the Winchelsea Framework Map which envisions urban development adjacent to the existing residential areas to the south.

  The amendment supports the Clause 21.09-2 as it enables the extension of Eastern Reserve for the long term active recreation requirements of the community by setting aside land required for an additional football oval and netball courts.

- **Does the amendment make proper use of the Victoria Planning Provisions?**

The use of the General Residential Zone (GRZ) is the most appropriate provision with the Victorian Planning Provisions (VPP) to facilitate the use and development of the land for residential purposes.

The use of the Development Plan Overlay is also the most appropriate tool within the VPP as it will ensure that the future use and development of the land will be shown on a development plan that facilitates good urban design principles prior to any future subdivision.

The use of the Public Acquisition Overlay is the most appropriate tool because it identifies the land which is to be acquired by the Surf Coast Shire, and to reserve land for a public purpose of a recreation reserve.

- **How does the amendment address the views of any relevant agency?**

  The amendment will address the views of relevant agencies as part of the exhibition process.

- **Does the amendment address relevant requirements of the Transport Integration Act 2010?**

  The rezoning seeks to facilitate connectivity within and through the site by the application of a Development Plan Overlay which will require a responsive road layout to enable good pedestrian, cyclist and vehicle connectivity.

  A responsive road layout will facilitate connections to the existing public transport network located on the Princes Highway and Winchelsea Station.

Resource and administrative costs

- **What impact will the new planning provisions have on the resource and administrative costs of the responsible authority?**

  The amendment will not impose any unreasonable resource and/or administrative costs on Council in its capacity as responsible authority.

Panel hearing dates

In accordance with clause 4(2) of Ministerial Direction No.15 the following panel hearing dates have been set for this amendment:

- directions hearing: TO BE ADVISED
- panel hearing: TO BE ADVISED

Where you may inspect this Amendment

The amendment is available for public inspection, free of charge, during office hours at the following places:

Surf Coast Shire Council

1 Merrijig Drive

TORQUAY VIC 3228

The amendment can also be inspected free of charge at the Department of Planning and Community Development website at www.dpcd.vic.gov.au/planning/publicinspection.

PLANNING & ENVIRONMENT ACT 1987
SURF COAST PLANNING SCHEME
This Development Plan complies with the requirements of Clause 43.04 of the Surf Coast Planning Scheme

Approval Number: PG19/0086
Date: 4/08/2021 Sheet No: 36 of 105
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Karen Hose

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APPENDIX C – WINCHELSEA CONTAMINATION MAPS

Visual Lead Shot Assessment

Sieved Sampling of Lead Shot - 0 to 0.05mbgl

Lead Concentration Sampling - 0 to 0.05mbgl

Visual clay target Assessment

APPENDIX D – EPA VICTORIA PRIORITY SITES

PRIORITY SITES REGISTER

Information as at 31 July 2018

Municipality	Suburb	Address	Issue	Notice Number
Mornington Peninsula Shire Council	RED HILL	87 Arthurs Seat RD	Current Service Station. Requires assessment and/or clean up.	0090002114
Mornington Peninsula Shire Council	ROSEBUD WEST	119 Truemans RD	Former Landfill. Requires ongoing management.	0090003616
Mornington Peninsula Shire Council	CRIB POINT	2 Lens ST	Former Landfill. Requires ongoing management.	0090003619
Mornington Peninsula Shire Council	MOUNT ELIZA	250 - 450 Moorooduc HWY	Former Landfill. Requires ongoing management.	0090003744
Mornington Peninsula Shire Council	HASTINGS	33 CEMETERY RD	Current Industrial Site. Requires assessment and/or clean up.	0090007389
Mornington Peninsula Shire Council	TYABB	15-21 MCKIRDYS RD	Former Landfill. Requires ongoing management.	0090007677
Mornington Peninsula Shire Council	DROMANA	107 - 109 POINT NEPEAN RD	Current petroleum storage site. Requires assessment and/or clean up.	0090008942
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	CASTLEMAINE WRP CA 7a 8a 9a 16 16e & 16f Sec D3	Current waste water treatment plant. Requires assessment and/or clean up.	0090008288
Moyne Shire Council	PORT FAIRY	Badhams LANE	Former Landfill. Requires ongoing management.	0090003625
Moyne Shire Council	ALLANSFORD	5331 Great Ocean RD	Current Industrial Site. Requires ongoing management.	0090004322
Nillumbik Shire Council	PANTON HILL	165 MOTSCHALL RD	Industrial waste has been dumped at the site. Requires assessment and/or clean up.	0090002083
Nillumbik Shire Council	ELTHAM	197 Sherbourne RD	Former Industrial Site. Requires assessment and/or clean up.	0090007082
Nillumbik 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 Council	Stawell	Crown Allotment 136K Parish of Illawarra	Industrial waste has been dumped at the site. Requires ongoing management.	0090006260
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	TSF2 ,CA1 Sec5,CA4 Sec5, CA5 Sec5 CA6 Sec5, CA18V Sec2, CA18W Sec2,	Historical deposit of mine tailings. Requires assessment and/or clean up.	0090008332
Southern Grampians Shire Council	PENSHURST	14 PENSHURST-DUNKELD RD	Current Industrial Site. Requires assessment and/or clean up.	0090008485
Southern Grampians Shire Council	PENSHURST	14 PENSHURST-DUNKELD RD	Former Industrial Site. Requires assessment and/or clean up.	0090008486
South Gippsland Shire Council	FOSTER	4090 SOUTH GIPPSLAND HWY	Former Landfill. Requires ongoing management.	0090003533
South Gippsland Shire Council	FOSTER	4090 SOUTH GIPPSLAND HWY	Former Landfill. Requires ongoing management.	0090003747
South Gippsland Shire Council	LEONGATHA SOUTH	630 ROUGHEADS RD	Former Landfill. Requires ongoing management.	0090006475
South Gippsland Shire Council	AGNES	614 BARRY RD	Industrial waste has been dumped at the site. Requires assessment and/or clean up.	0090009029
Surf Coast Shire Council	ANGLESEA	CAMP RD	Former Industrial Site. Requires assessment and/or clean up.	0090006380
Surf Coast Shire Council	Winchelsea	84 Hopkins Street CA 33 Township of Winchelsea	Gun, pistol or rifle range. Requires assessment and/ or clean up.	0090008921
Surf Coast Shire Council	Winchelsea	84 Hopkins Street CA 33 Township of Winchelsea	Gun, pistol or rifle range. Requires assessment and/ or clean up.	0090008985
Swan Hill Rural City Council	Swan Hill	3 Hastings Street	Former petroleum storage site. Requires assessment and/or clean up.	0090006980
Towong Shire Council	BETHANGA	4 MARTIN ST	Former Landfill. Requires ongoing management.	0090003554
Wangaratta Rural City Council	WANGARATTA SOUTH	99 SHANLEY ST	Current Industrial Site. Requires assessment and/or clean up.	0090007165
Wangaratta Rural City Council	North Wangaratta	21 Detour Road	Gun, pistol or rifle range. Requires assessment and/ or clean up.	0090008899
Warrnambool City Council	WARRNAMBOOL	Braithwaite ST	Former Landfill. Requires ongoing management.	0090007563

APPENDIX E – LABORATARY CHAIN OF CUSTODY

CHAIN OF CUSTODY DOCUMENTATION

CLIENT: DRC Environmental Pty Ltd

ADDRESS / OFFICE: G6 / 79-109 Manningham Road, Bulleen VIC 3105

PROJECT MANAGER (PM): Patrick Baldwin

PROJECT ID: 135 Austin St, Winchelsea

SITE: " " P.O. NO.:

RESULTS REQUIRED (Date): Std. TAT QUOTE NO.:

SAMPLER: Rob

MOBILE: 0457 250 864

PHONE

EMAIL REPORT TO: patrick@drcenviro.com.au poppy@drcenviro.com.au renee@drcenviro.com.au

EMAIL INVOICE TO: (if different to report)

ANALYSIS REQUIRED including SUITES (note - suite codes must be listed to attract suite prices)

FOR LABORATORY USE ONLY

COOLER SEAL (circle appropriate)

Intact: Yes No N/A

SAMPLE TEMPERATURE

CHILLED: Yes No

COMMENTS / SPECIAL HANDLING / STORAGE OR DIPOSAL:

Notes: e.g. Highly contaminated samples
e.g. High PAHs expected
Extra volume for QC or trace ORs etc

	SAMPLE INFORMATION (note: S = Soil, W=Water)				CONTAINER INFORMATION		B1	M13A	Pb	OCPs	TRH									
	SAMPLE ID	MATRIX	DATE	Time	Type / Code	Total bottles														
	TP19_0.9	S	22/8		J			/		/										
	TP19_2.0	"	"		"															
	TP20_0.1						/													
	TP20_0.5							/			/									
	TP20_1.5																			
	SS01								/											
	SS02								/											
	SS03								/											
	SS04								/											
	SS05								/											
	SS06								/											
	SS07	↓	↓		↓				/											

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name: Robert Cameron	Date: 23/8/18	Name:	Date:	Con' Note No:
Of: DRC Enviro	Time: 4.30pm	Of:	Time:	
Name:	Date:	Name:	Date:	Transport Co:
Of:	Time:	Of:	Time:	

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserveed Plastic; AG = Amber Glass Unpreserved; V = VOA Vial HCl Preserved; VS = VOA Vial Sulphuric Preserved; SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bad for Acid Sulphate Soils; B = Unpreserved Bag.

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PROJECT MANAGER (PM): Patrick Baldwin

PROJECT ID: 135 Austin St, Winchelsea

SITE: " " P.O. NO.:

RESULTS REQUIRED (Date): Std. TAT QUOTE NO.:

SAMPLER: Rob

MOBILE: 0487 280 364

EMAIL REPORT TO: patrick@drcenviro.com.au poppy@drcenviro.com.au malika@drcenviro.com.au renee@drcenviro.com.au rob@drcenviro.com.au rowan@drcenviro.com.au

EMAIL INVOICE TO: (if different to report)

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Notes: e.g. Highly contaminated samples e.g. "High PAHs expected". Extra volume for QC(s) trace LORs etc.

FOR LABORATORY USE ONLY

COOLER SEAL (circle appropriate)

Intact: Yes No N/A

SAMPLE TEMPERATURE

CHILLED: Yes No

COMMENTS / SPECIAL HANDLING / STORAGE OR DIPOSAL:

SAMPLE INFORMATION (note: S = Soil, W=Water)					CONTAINER INFORMATION		Pb	Asbestos ID											
ALS ID	SAMPLE ID	MATRIX	DATE	Time	Type / Code	Total bottles													
	SS08	S	22/8		J		/												
	SS09	"	"		"		/												
	SS10	"	"		"		/												
	SS12	"	"		"		/												
	SS13	"	"		"		/												
	ACM06_0.8	ACM	2/8		Bag			/											
	ACM08_2.0	"	"		"												/		
	ACM11_1.0	"	"		"			/											
	ACM20_0.8	"	22/8		"			/											

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT
Name: Robert Cameron	Date: 23/8/18	Name:	Date:	Con' Note No:
Of: DRC Enviro	Time: 4:30pm	Of:	Time:	
Name:	Date:	Name:	Date:	Transport Co:
Of:	Time:	Of:	Time:	

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserveed Plastic; AG = Amber Glass Unpreserved; V = VOA Vial HCl Preserved; VS = VOA Vial Sulphuric Preserved; SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bad for Acid Sulphate Soils; B = Unpreserved Bag.

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MOBILE: 0457 250 744

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EMAIL INVOICE TO: (if different to report)

ANALYSIS REQUIRED including SUITES (note - suite codes must be listed to attract suite prices)

Notes: e.g. Highly contaminated samples e.g. "High PAHs expected".
Extra volume for QC or trace LORs etc

FOR LABORATORY USE ONLY

COOLER SEAL (circle appropriate)

Intact: Yes No N/A

SAMPLE TEMPERATURE

CHILLED: Yes No

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE INFORMATION (note: S = Soil, W=Water)					CONTAINER INFORMATION		M13A	OCPs	Pb										
ALS ID	SAMPLE ID	MATRIX	DATE	Time	Type / Code	Total bottles													
	SPL1_220818	S	2218		J		/	/											
	SPL2_220818	↓	↓		↓		/	/											
	SPL3_220818								/										
	DUP1_220818						/	/											
	DUP2_220818						/	/											
	DUP3_220818	↓	↓		↓				/										

forward to AES

DRC ENVIRONMENTAL
DRC Environmental Pty Ltd

Approval Number: PG19/0866
Date: 4/08/2021 Sheet No: 45 of 115
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THIS IS NOT A BUILDING APPROVAL

RELINQUISHED BY:			RECEIVED BY		METHOD OF SHIPMENT
Name: Rob & Cameron	Date: 23/8/18		Name:	Date:	Con' Note No:
Of: DRC Enviro	Time: 4.30pm		Of:	Time:	
Name:	Date:		Name:	Date:	Transport Co:
Of:	Time:		Of:	Time:	

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserveed Plastic; AG = Amber Glass Unpreserved; V = VOA Vial HCl Preserved; VS = VOA Vial Sulphuric Preserved; SG = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bad for Acid Sulphate Soils; B = Unpreserved Bag.

APPENDIX F – FIELD OBSERVATIONS AND XRF SCREENING

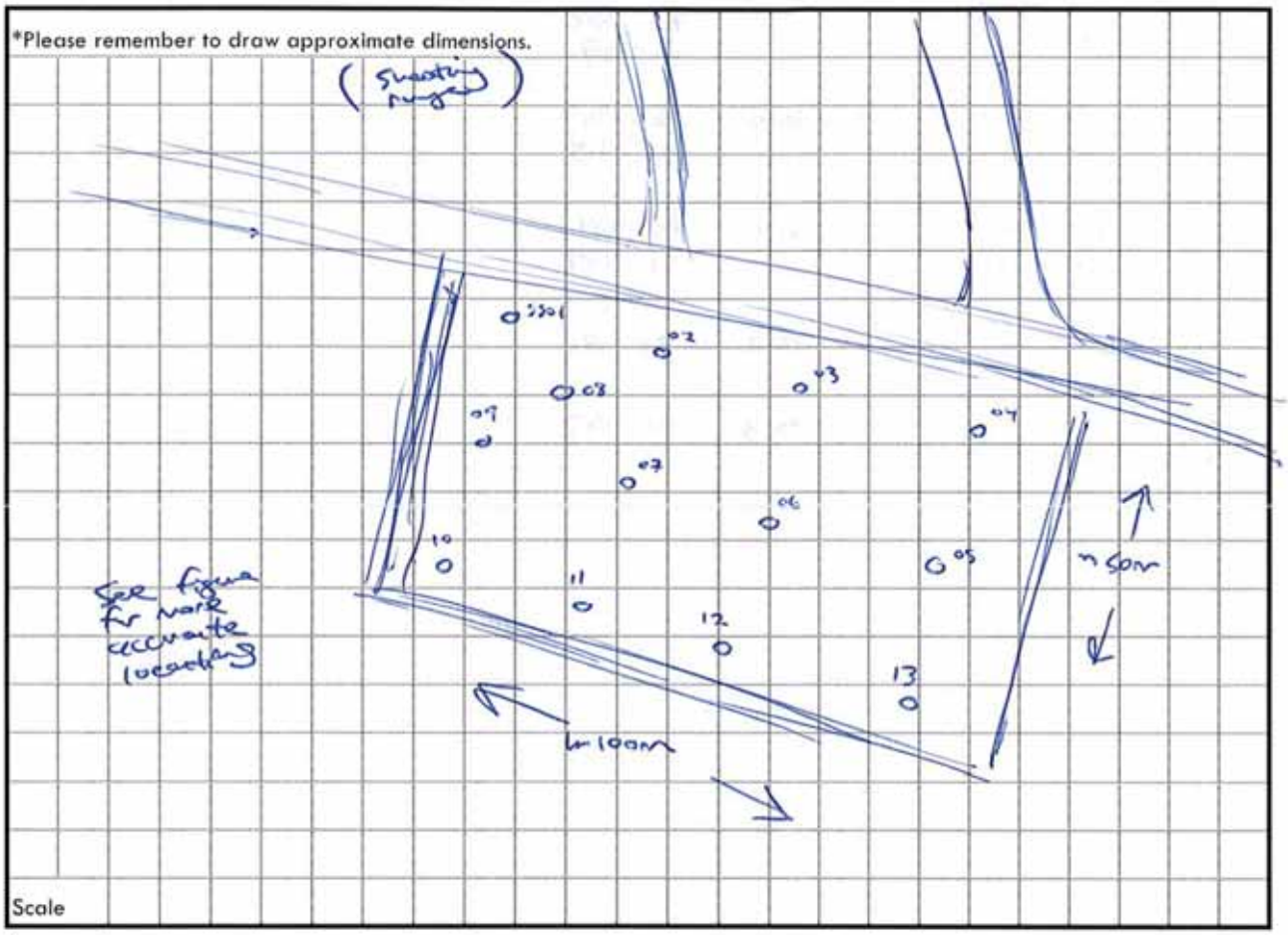
Validation Log Sheet

DRC Environmental

Site 135 Anglin Street, Winchelsea

Date 22/8/18 Field Staff REC

*Please remember to draw approximate dimensions.



Sample ID	Depth	Sample Type / Stockpile / Validation Area	PID / Odour	Soil Type / Description / Rubble Content / ACM
SS01	0.05		–	clayey SAND; brown; fg; moist; no visual staining observed
SS02				
SS03				
SS04				
SS05				SAND; dark grey; f-m g; no visual staining observed
SS06				
SS07				
SS08				
SS09				
SS10				
SS11				
SS12				
SS13				

DUP3_220818
SPC3_220818

DRC Validation Log 140716

XRF Readings

5501	Fe	2391
	Zr	340
5502	Fe	2789
	Zr	335
5503	Fe	2811
	Zr	329
5504	Fe	2415
	Zr	321
5505	Fe	1151
	Zr	148
5506	Fe	1917
	Zr	293
5507	Fe	2964
	Zr	297
5508	Fe	3346
	Zr	427
5509	Fe	3070
	Zr	358
	Sr	27
5510	Fe	1947
	Zr	315
5511	Fe	929
	Zr	259
5512	Zr	181
5513	Zr	142

APPENDIX G – PRIMARY LABORATORY REPORT

eurofins | mgt

30 years Testing For Life 1987–2017
Celebrating 30 years Testing and Protecting Human Health

Certificate of Analysis

DRC Environmental Pty Ltd
Suite G6/79-109 Manningham Rd
Bulleen
VIC 3105

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: **-CC SRA Patrick Baldwin**

Report **614096-S**
Project name 135 AUSTIN STREET WINCHELSEA
Received Date Aug 23, 2018

Client Sample ID			**TP01_0.1**	**TP02_0.1**	**TP02_0.8**	**TP04_0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**M18-Au31984**	**M18-Au31985**	**M18-Au31986**	**M18-Au31987**
Date Sampled			**Aug 21, 2018**	**Aug 21, 2018**	**Aug 21, 2018**	**Aug 21, 2018**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	-	< 20
TRH C10-C14	20	mg/kg	-	< 20	-	< 20
TRH C15-C28	50	mg/kg	-	< 50	-	< 50
TRH C29-C36	50	mg/kg	-	< 50	-	< 50
TRH C10-36 (Total)	50	mg/kg	-	< 50	-	< 50
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	< 20
TRH >C10-C16	50	mg/kg	-	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	< 50
TRH >C16-C34	100	mg/kg	-	< 100	-	< 100
TRH >C34-C40	100	mg/kg	-	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	< 100
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	-
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Toxaphene	1	mg/kg	< 1	-	< 1	-

Client Sample ID			TP01_0.1	TP02_0.1	TP02_0.8	TP04_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M18-Au31984	M18-Au31985	M18-Au31986	M18-Au31987
Date Sampled			Aug 21, 2018	Aug 21, 2018	Aug 21, 2018	Aug 21, 2018
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	76	-	84	-
Tetrachloro-m-xylene (surr.)	1	%	83	-	94	-
% Moisture	1	%	11	5.3	5.0	6.6
Heavy Metals						
Arsenic	2	mg/kg	2.7	< 2	< 2	5.0
Beryllium	2	mg/kg	< 2	< 2	< 2	< 2
Boron	10	mg/kg	< 10	< 10	< 10	< 10
Cadmium	0.4	mg/kg	< 0.4	< 0.4	0.5	< 0.4
Chromium	5	mg/kg	27	< 5	< 5	< 5
Cobalt	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	< 5	< 5	11	< 5
Lead	5	mg/kg	10	41	43	51
Manganese	5	mg/kg	21	26	60	45
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	11	< 5	< 5	< 5
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Zinc	5	mg/kg	48	71	69	85

Client Sample ID			TP04_0.5	TP05_0.1	TP05_0.5	TP06_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M18-Au31988	M18-Au31989	M18-Au31990	M18-Au31991
Date Sampled			Aug 21, 2018	Aug 21, 2018	Aug 21, 2018	Aug 21, 2018
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	-	< 20
TRH C10-C14	20	mg/kg	-	< 20	-	< 20
TRH C15-C28	50	mg/kg	-	< 50	-	< 50
TRH C29-C36	50	mg/kg	-	< 50	-	< 50
TRH C10-36 (Total)	50	mg/kg	-	< 50	-	< 50
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	< 20
TRH >C10-C16	50	mg/kg	-	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	< 50
TRH >C16-C34	100	mg/kg	-	< 100	-	< 100
TRH >C34-C40	100	mg/kg	-	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	< 100
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	-

Client Sample ID			TP04_0.5	TP05_0.1	TP05_0.5	TP06_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M18-Au31988	M18-Au31989	M18-Au31990	M18-Au31991
Date Sampled			Aug 21, 2018	Aug 21, 2018	Aug 21, 2018	Aug 21, 2018
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Toxaphene	1	mg/kg	< 1	-	< 1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	86	-	85	-
Tetrachloro-m-xylene (surr.)	1	%	81	-	79	-
% Moisture	1	%	7.9	6.1	6.5	8.5
Heavy Metals						
Arsenic	2	mg/kg	3.0	< 2	< 2	< 2
Beryllium	2	mg/kg	< 2	< 2	< 2	< 2
Boron	10	mg/kg	< 10	< 10	< 10	< 10
Cadmium	0.4	mg/kg	1.8	< 0.4	< 0.4	0.4
Chromium	5	mg/kg	< 5	< 5	< 5	8.5
Cobalt	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	16	< 5	< 5	5.9
Lead	5	mg/kg	190	18	110	45
Manganese	5	mg/kg	240	15	25	30
Mercury	0.1	mg/kg	0.6	< 0.1	< 0.1	0.1
Nickel	5	mg/kg	5.0	< 5	< 5	< 5
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Zinc	5	mg/kg	790	60	110	220

Client Sample ID			TP06_0.5	TP06_0.8	TP07_0.1	TP07_0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M18-Au31992	M18-Au31993	M18-Au31994	M18-Au31995
Date Sampled			Aug 21, 2018	Aug 21, 2018	Aug 21, 2018	Aug 21, 2018
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	-	< 20
TRH C10-C14	20	mg/kg	-	< 20	-	< 20
TRH C15-C28	50	mg/kg	-	68	-	< 50
TRH C29-C36	50	mg/kg	-	89	-	< 50
TRH C10-36 (Total)	50	mg/kg	-	157	-	< 50
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	< 20
TRH >C10-C16	50	mg/kg	-	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	< 50
TRH >C16-C34	100	mg/kg	-	140	-	< 100
TRH >C34-C40	100	mg/kg	-	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	140	-	< 100
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	-
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Toxaphene	1	mg/kg	< 1	-	< 1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	85	-	76	-
Tetrachloro-m-xylene (surr.)	1	%	83	-	81	-
% Moisture	1	%	7.4	19	9.3	5.1
Heavy Metals						
Arsenic	2	mg/kg	< 2	4.9	3.3	< 2
Beryllium	2	mg/kg	< 2	< 2	< 2	< 2
Boron	10	mg/kg	< 10	12	< 10	< 10
Cadmium	0.4	mg/kg	< 0.4	24	< 0.4	< 0.4

Client Sample ID			TP06_0.5	TP06_0.8	TP07_0.1	TP07_0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M18-Au31992	M18-Au31993	M18-Au31994	M18-Au31995
Date Sampled			Aug 21, 2018	Aug 21, 2018	Aug 21, 2018	Aug 21, 2018
Test/Reference	LOR	Unit				
Heavy Metals						
Chromium	5	mg/kg	< 5	26	19	< 5
Cobalt	5	mg/kg	< 5	7.5	< 5	< 5
Copper	5	mg/kg	9.7	40	< 5	23
Lead	5	mg/kg	63	350	9.8	29
Manganese	5	mg/kg	45	310	37	28
Mercury	0.1	mg/kg	< 0.1	0.6	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	17	7.5	< 5
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Zinc	5	mg/kg	120	1600	19	38

Client Sample ID			TP08_0.1	TP08_0.8	TP08_1.4	TP09_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M18-Au31996	M18-Au31997	M18-Au31998	M18-Au31999
Date Sampled			Aug 21, 2018	Aug 21, 2018	Aug 21, 2018	Aug 21, 2018
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	-	< 20
TRH C10-C14	20	mg/kg	-	< 20	-	< 20
TRH C15-C28	50	mg/kg	-	< 50	-	< 50
TRH C29-C36	50	mg/kg	-	< 50	-	< 50
TRH C10-36 (Total)	50	mg/kg	-	< 50	-	< 50
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	< 20
TRH >C10-C16	50	mg/kg	-	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	< 50
TRH >C16-C34	100	mg/kg	-	< 100	-	< 100
TRH >C34-C40	100	mg/kg	-	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	< 100
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	-
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	-

Client Sample ID			TP08_0.1	TP08_0.8	TP08_1.4	TP09_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M18-Au31996	M18-Au31997	M18-Au31998	M18-Au31999
Date Sampled			Aug 21, 2018	Aug 21, 2018	Aug 21, 2018	Aug 21, 2018
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Toxaphene	1	mg/kg	< 1	-	< 1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	79	-	101	-
Tetrachloro-m-xylene (surr.)	1	%	76	-	84	-
% Moisture	1	%	19	4.2	6.5	12
Heavy Metals						
Arsenic	2	mg/kg	13	< 2	6.8	2.4
Beryllium	2	mg/kg	< 2	< 2	< 2	< 2
Boron	10	mg/kg	10	< 10	< 10	< 10
Cadmium	0.4	mg/kg	< 0.4	< 0.4	1.0	< 0.4
Chromium	5	mg/kg	56	< 5	9.8	10
Cobalt	5	mg/kg	12	< 5	< 5	< 5
Copper	5	mg/kg	10	7.4	48	< 5
Lead	5	mg/kg	14	46	260	19
Manganese	5	mg/kg	38	29	180	66
Mercury	0.1	mg/kg	0.3	< 0.1	0.1	< 0.1
Nickel	5	mg/kg	30	< 5	39	5.2
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Zinc	5	mg/kg	38	150	630	43

Client Sample ID			TP09_0.4	TP09_0.8	TP10_0.1	TP10_1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M18-Au32000	M18-Au32001	M18-Au32002	M18-Au32003
Date Sampled			Aug 21, 2018	Aug 21, 2018	Aug 21, 2018	Aug 21, 2018
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	-	< 20
TRH C10-C14	20	mg/kg	-	< 20	-	< 20
TRH C15-C28	50	mg/kg	-	< 50	-	< 50
TRH C29-C36	50	mg/kg	-	< 50	-	< 50
TRH C10-36 (Total)	50	mg/kg	-	< 50	-	< 50
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	< 20
TRH >C10-C16	50	mg/kg	-	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	< 50
TRH >C16-C34	100	mg/kg	-	< 100	-	< 100
TRH >C34-C40	100	mg/kg	-	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	< 100

Client Sample ID			TP09_0.4	TP09_0.8	TP10_0.1	TP10_1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M18-Au32000	M18-Au32001	M18-Au32002	M18-Au32003
Date Sampled			Aug 21, 2018	Aug 21, 2018	Aug 21, 2018	Aug 21, 2018
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	-
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Toxaphene	1	mg/kg	< 1	-	< 1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	100	-	100	-
Tetrachloro-m-xylene (surr.)	1	%	116	-	118	-
% Moisture	1	%	6.9	13	9.1	5.6
Heavy Metals						
Arsenic	2	mg/kg	3.6	< 2	2.5	< 2
Beryllium	2	mg/kg	< 2	< 2	< 2	< 2
Boron	10	mg/kg	< 10	< 10	< 10	< 10
Cadmium	0.4	mg/kg	0.8	< 0.4	0.9	< 0.4
Chromium	5	mg/kg	6.4	5.6	6.1	< 5
Cobalt	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	27	7.5	5.2	< 5
Lead	5	mg/kg	150	37	31	26
Manganese	5	mg/kg	110	24	37	24
Mercury	0.1	mg/kg	0.2	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	5.2	< 5	< 5	< 5
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Zinc	5	mg/kg	330	110	120	64

Client Sample ID			TP10_2.0	TP11_0.1	TP11_0.8	TP12_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M18-Au32004	M18-Au32005	M18-Au32006	M18-Au32007
Date Sampled			Aug 21, 2018	Aug 21, 2018	Aug 21, 2018	Aug 21, 2018
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	< 20	-
TRH C10-C14	20	mg/kg	-	< 20	< 20	-
TRH C15-C28	50	mg/kg	-	< 50	< 50	-
TRH C29-C36	50	mg/kg	-	< 50	< 50	-
TRH C10-36 (Total)	50	mg/kg	-	< 50	< 50	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Hexachlorobutadiene	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			TP10_2.0	TP11_0.1	TP11_0.8	TP12_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M18-Au32004	M18-Au32005	M18-Au32006	M18-Au32007
Date Sampled			Aug 21, 2018	Aug 21, 2018	Aug 21, 2018	Aug 21, 2018
Test/Reference	LOR	Unit				
Volatile Organics						
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total	0.3	mg/kg	-	-	< 0.3	-
Total MAH*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	-	119	-
Toluene-d8 (surr.)	1	%	-	-	123	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	< 0.5	-
TRH C6-C10	20	mg/kg	-	< 20	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	< 20	-
TRH >C10-C16	50	mg/kg	-	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	< 50	-
TRH >C16-C34	100	mg/kg	-	< 100	< 100	-
TRH >C34-C40	100	mg/kg	-	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	-
Acenaphthene	0.5	mg/kg	-	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	-
Anthracene	0.5	mg/kg	-	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Chrysene	0.5	mg/kg	-	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5	-
Fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Fluorene	0.5	mg/kg	-	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	-
Naphthalene	0.5	mg/kg	-	-	< 0.5	-
Phenanthrene	0.5	mg/kg	-	-	< 0.5	-
Pyrene	0.5	mg/kg	-	-	< 0.5	-
Total PAH*	0.5	mg/kg	-	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	-	119	-
p-Terphenyl-d14 (surr.)	1	%	-	-	96	-

Client Sample ID			TP10_2.0	TP11_0.1	TP11_0.8	TP12_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M18-Au32004	M18-Au32005	M18-Au32006	M18-Au32007
Date Sampled			Aug 21, 2018	Aug 21, 2018	Aug 21, 2018	Aug 21, 2018
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Toxaphene	1	mg/kg	< 1	-	< 1	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	106	-	95	88
Tetrachloro-m-xylene (surr.)	1	%	129	-	118	108
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	-
Total PCB*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	95	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	118	-
Phenols (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	1.0	mg/kg	-	-	< 1	-
2.6-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	-
4-Chloro-3-methylphenol	1.0	mg/kg	-	-	< 1	-
Pentachlorophenol	1.0	mg/kg	-	-	< 1	-
Tetrachlorophenols - Total	1.0	mg/kg	-	-	< 1	-
Total Halogenated Phenol*	1	mg/kg	-	-	< 1	-

Client Sample ID			TP10_2.0	TP11_0.1	TP11_0.8	TP12_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M18-Au32004	M18-Au32005	M18-Au32006	M18-Au32007
Date Sampled			Aug 21, 2018	Aug 21, 2018	Aug 21, 2018	Aug 21, 2018
Test/Reference	LOR	Unit				
Phenols (non-Halogenated)						
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	%	-	-	125	-
Chromium (hexavalent)	1	mg/kg	-	-	< 1	-
Cyanide (total)	5	mg/kg	-	-	< 5	-
Fluoride	100	mg/kg	-	-	< 100	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	-	8.3	-
% Moisture	1	%	8.5	5.9	4.9	7.8
Heavy Metals						
Arsenic	2	mg/kg	2.6	< 2	2.2	< 2
Beryllium	2	mg/kg	< 2	< 2	-	< 2
Boron	10	mg/kg	< 10	< 10	-	< 10
Cadmium	0.4	mg/kg	0.4	< 0.4	0.6	< 0.4
Chromium	5	mg/kg	7.5	< 5	< 5	< 5
Cobalt	5	mg/kg	< 5	< 5	-	< 5
Copper	5	mg/kg	16	< 5	14	< 5
Lead	5	mg/kg	39	17	89	13
Manganese	5	mg/kg	160	15	-	28
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	-	-	< 5	-
Nickel	5	mg/kg	5.4	< 5	5.2	< 5
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	-	-	< 0.2	-
Tin	10	mg/kg	-	-	13	-
Zinc	5	mg/kg	360	47	200	47

Client Sample ID			TP12_0.5	TP13_0.1	TP13_0.5	TP14_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M18-Au32008	M18-Au32009	M18-Au32010	M18-Au32011
Date Sampled			Aug 21, 2018	Aug 21, 2018	Aug 21, 2018	Aug 21, 2018
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
TRH C10-C14	20	mg/kg	< 20	-	< 20	-
TRH C15-C28	50	mg/kg	< 50	-	< 50	-
TRH C29-C36	50	mg/kg	< 50	-	< 50	-
TRH C10-36 (Total)	50	mg/kg	< 50	-	< 50	-

Client Sample ID			TP12_0.5	TP13_0.1	TP13_0.5	TP14_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M18-Au32008	M18-Au32009	M18-Au32010	M18-Au32011
Date Sampled			Aug 21, 2018	Aug 21, 2018	Aug 21, 2018	Aug 21, 2018
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	-
TRH C6-C10	20	mg/kg	< 20	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	-
TRH >C10-C16	50	mg/kg	< 50	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	-
TRH >C16-C34	100	mg/kg	< 100	-	< 100	-
TRH >C34-C40	100	mg/kg	< 100	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Toxaphene	1	mg/kg	-	< 1	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	98	-	96
Tetrachloro-m-xylene (surr.)	1	%	-	132	-	124
% Moisture	1	%	4.9	14	2.7	6.2
Heavy Metals						
Arsenic	2	mg/kg	< 2	5.0	< 2	< 2
Beryllium	2	mg/kg	< 2	< 2	< 2	< 2
Boron	10	mg/kg	< 10	< 10	< 10	< 10
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	27	< 5	5.0
Cobalt	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	< 5	6.8	< 5	< 5
Lead	5	mg/kg	< 5	14	< 5	< 5
Manganese	5	mg/kg	< 5	39	22	7.9
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			TP12_0.5	TP13_0.1	TP13_0.5	TP14_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M18-Au32008	M18-Au32009	M18-Au32010	M18-Au32011
Date Sampled			Aug 21, 2018	Aug 21, 2018	Aug 21, 2018	Aug 21, 2018
Test/Reference	LOR	Unit				
Heavy Metals						
Nickel	5	mg/kg	< 5	14	< 5	< 5
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Zinc	5	mg/kg	< 5	110	32	5.9

Client Sample ID			TP14_0.7	TP15_0.1	TP15_0.6	TP16_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M18-Au32012	M18-Au32013	M18-Au32014	M18-Au32015
Date Sampled			Aug 21, 2018	Aug 22, 2018	Aug 22, 2018	Aug 22, 2018
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	-	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	-	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	-	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	-	< 50	< 50
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	mg/kg	-	-	< 0.5	< 0.5
Hexachlorobutadiene	0.5	mg/kg	-	-	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzene	0.1	mg/kg	-	-	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	-	-	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Bromoform	0.5	mg/kg	-	-	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	< 0.5

Client Sample ID			TP14_0.7	TP15_0.1	TP15_0.6	TP16_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M18-Au32012	M18-Au32013	M18-Au32014	M18-Au32015
Date Sampled			Aug 21, 2018	Aug 22, 2018	Aug 22, 2018	Aug 22, 2018
Test/Reference	LOR	Unit				
Volatile Organics						
Chloroethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Chloroform	0.5	mg/kg	-	-	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	-	-	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	-	-	< 0.1	< 0.1
Styrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	< 0.5
Toluene	0.1	mg/kg	-	-	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	-	-	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	< 0.5
Xylenes - Total	0.3	mg/kg	-	-	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	-	-	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	127	122
Toluene-d8 (surr.)	1	%	-	-	109	110
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
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
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

Client Sample ID			TP14_0.7	TP15_0.1	TP15_0.6	TP16_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M18-Au32012	M18-Au32013	M18-Au32014	M18-Au32015
Date Sampled			Aug 21, 2018	Aug 22, 2018	Aug 22, 2018	Aug 22, 2018
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Chrysene	0.5	mg/kg	-	-	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	-	118	121
p-Terphenyl-d14 (surr.)	1	%	-	-	119	122
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
a-BHC	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
d-BHC	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Toxaphene	1	mg/kg	-	< 1	< 1	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	-	104	107	107
Tetrachloro-m-xylene (surr.)	1	%	-	117	119	119
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	-	-	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	107	107
Tetrachloro-m-xylene (surr.)	1	%	-	-	119	119

Client Sample ID			TP14_0.7	TP15_0.1	TP15_0.6	TP16_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M18-Au32012	M18-Au32013	M18-Au32014	M18-Au32015
Date Sampled			Aug 21, 2018	Aug 22, 2018	Aug 22, 2018	Aug 22, 2018
Test/Reference	LOR	Unit				
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	-	< 0.5	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	-	-	< 1	< 1
2.4.6-Trichlorophenol	1.0	mg/kg	-	-	< 1	< 1
2.6-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	< 0.5
4-Chloro-3-methylphenol	1.0	mg/kg	-	-	< 1	< 1
Pentachlorophenol	1.0	mg/kg	-	-	< 1	< 1
Tetrachlorophenols - Total	1.0	mg/kg	-	-	< 1	< 1
Total Halogenated Phenol*	1	mg/kg	-	-	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	-	< 20	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	-	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	< 0.2	< 0.2
2-Nitrophenol	1.0	mg/kg	-	-	< 1	< 1
2.4-Dimethylphenol	0.5	mg/kg	-	-	< 0.5	< 0.5
2.4-Dinitrophenol	5	mg/kg	-	-	< 5	< 5
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	< 0.4	< 0.4
4-Nitrophenol	5	mg/kg	-	-	< 5	< 5
Dinoseb	20	mg/kg	-	-	< 20	< 20
Phenol	0.5	mg/kg	-	-	< 0.5	< 0.5
Total Non-Halogenated Phenol*	20	mg/kg	-	-	< 20	< 20
Phenol-d6 (surr.)	1	%	-	-	109	111
Chromium (hexavalent)	1	mg/kg	-	-	< 1	< 1
Cyanide (total)	5	mg/kg	-	-	< 5	< 5
Fluoride	100	mg/kg	-	-	< 100	< 100
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	-	7.9	7.8
% Moisture	1	%	21	11	14	5.0
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	3.8	< 2
Beryllium	2	mg/kg	< 2	< 2	-	-
Boron	10	mg/kg	< 10	< 10	-	-
Cadmium	0.4	mg/kg	0.5	< 0.4	0.5	< 0.4
Chromium	5	mg/kg	< 5	5.2	15	< 5
Cobalt	5	mg/kg	< 5	< 5	-	-
Copper	5	mg/kg	< 5	< 5	18	< 5
Lead	5	mg/kg	55	16	170	26
Manganese	5	mg/kg	26	18	-	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	0.2	0.5
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	< 5	< 5	8.2	< 5
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	0.2	mg/kg	-	-	< 0.2	< 0.2
Tin	10	mg/kg	-	-	13	< 10
Zinc	5	mg/kg	200	23	240	67

Client Sample ID			TP16_0.5	TP17_0.1	TP17_0.4	TP18_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M18-Au32016	M18-Au32017	M18-Au32018	M18-Au32019
Date Sampled			Aug 22, 2018	Aug 22, 2018	Aug 22, 2018	Aug 22, 2018
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
TRH C10-C14	20	mg/kg	< 20	-	< 20	-
TRH C15-C28	50	mg/kg	< 50	-	< 50	-
TRH C29-C36	50	mg/kg	< 50	-	< 50	-
TRH C10-36 (Total)	50	mg/kg	< 50	-	< 50	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	-
TRH C6-C10	20	mg/kg	< 20	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	-
TRH >C10-C16	50	mg/kg	< 50	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	-
TRH >C16-C34	100	mg/kg	< 100	-	< 100	-
TRH >C34-C40	100	mg/kg	< 100	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Toxaphene	1	mg/kg	-	< 1	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	110	-	121
Tetrachloro-m-xylene (surr.)	1	%	-	118	-	124
% Moisture	1	%	6.5	7.4	7.5	9.6
Heavy Metals						
Arsenic	2	mg/kg	2.7	< 2	< 2	3.6
Beryllium	2	mg/kg	< 2	< 2	< 2	< 2
Boron	10	mg/kg	< 10	< 10	< 10	< 10
Cadmium	0.4	mg/kg	2.1	< 0.4	< 0.4	< 0.4

Client Sample ID			TP16_0.5	TP17_0.1	TP17_0.4	TP18_0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M18-Au32016	M18-Au32017	M18-Au32018	M18-Au32019
Date Sampled			Aug 22, 2018	Aug 22, 2018	Aug 22, 2018	Aug 22, 2018
Test/Reference	LOR	Unit				
Heavy Metals						
Chromium	5	mg/kg	8.3	< 5	11	7.3
Cobalt	5	mg/kg	5.2	< 5	< 5	< 5
Copper	5	mg/kg	25	< 5	< 5	15
Lead	5	mg/kg	130	7.8	< 5	250
Manganese	5	mg/kg	210	10	19	85
Mercury	0.1	mg/kg	1.4	< 0.1	< 0.1	0.5
Nickel	5	mg/kg	9.3	< 5	< 5	5.4
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Zinc	5	mg/kg	2700	25	9.9	180

Client Sample ID			TP18_0.8	TP19_0.1	TP19_0.5	TP19_0.9
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M18-Au32020	M18-Au32021	M18-Au32022	M18-Au32023
Date Sampled			Aug 22, 2018	Aug 22, 2018	Aug 22, 2018	Aug 22, 2018
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
TRH C10-C14	20	mg/kg	< 20	-	< 20	-
TRH C15-C28	50	mg/kg	< 50	-	< 50	-
TRH C29-C36	50	mg/kg	< 50	-	< 50	-
TRH C10-36 (Total)	50	mg/kg	< 50	-	< 50	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	-
TRH C6-C10	20	mg/kg	< 20	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	-
TRH >C10-C16	50	mg/kg	< 50	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	-
TRH >C16-C34	100	mg/kg	< 100	-	< 100	-
TRH >C34-C40	100	mg/kg	< 100	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.05

Client Sample ID			TP18_0.8	TP19_0.1	TP19_0.5	TP19_0.9
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M18-Au32020	M18-Au32021	M18-Au32022	M18-Au32023
Date Sampled			Aug 22, 2018	Aug 22, 2018	Aug 22, 2018	Aug 22, 2018
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Toxaphene	1	mg/kg	-	< 1	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	107	-	104
Tetrachloro-m-xylene (surr.)	1	%	-	115	-	117
% Moisture	1	%	6.1	13	6.8	3.7
Heavy Metals						
Arsenic	2	mg/kg	23	7.0	6.0	< 2
Beryllium	2	mg/kg	< 2	< 2	< 2	< 2
Boron	10	mg/kg	< 10	< 10	< 10	< 10
Cadmium	0.4	mg/kg	0.6	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	22	37	5.3	6.5
Cobalt	5	mg/kg	5.6	8.2	< 5	< 5
Copper	5	mg/kg	65	< 5	7.1	8.4
Lead	5	mg/kg	130	13	170	84
Manganese	5	mg/kg	130	130	95	39
Mercury	0.1	mg/kg	0.2	< 0.1	0.3	4.0
Nickel	5	mg/kg	20	17	< 5	< 5
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Zinc	5	mg/kg	320	9.9	170	240

Client Sample ID			TP20_0.1	TP20_0.5	SS01	SS02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M18-Au32024	M18-Au32025	M18-Au32026	M18-Au32027
Date Sampled			Aug 22, 2018	Aug 22, 2018	Aug 22, 2018	Aug 22, 2018
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	-	-
TRH C10-C14	20	mg/kg	< 20	< 20	-	-
TRH C15-C28	50	mg/kg	< 50	< 50	-	-
TRH C29-C36	50	mg/kg	< 50	< 50	-	-
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	-	-
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Hexachlorobutadiene	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			TP20_0.1	TP20_0.5	SS01	SS02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M18-Au32024	M18-Au32025	M18-Au32026	M18-Au32027
Date Sampled			Aug 22, 2018	Aug 22, 2018	Aug 22, 2018	Aug 22, 2018
Test/Reference	LOR	Unit				
Volatile Organics						
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-
Bromobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Chloroethane	0.5	mg/kg	< 0.5	-	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
Iodomethane	0.5	mg/kg	< 0.5	-	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Styrene	0.5	mg/kg	< 0.5	-	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Trichloroethene	0.5	mg/kg	< 0.5	-	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	-
Total MAH*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			TP20_0.1	TP20_0.5	SS01	SS02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M18-Au32024	M18-Au32025	M18-Au32026	M18-Au32027
Date Sampled			Aug 22, 2018	Aug 22, 2018	Aug 22, 2018	Aug 22, 2018
Test/Reference	LOR	Unit				
Volatile Organics						
4-Bromofluorobenzene (surr.)	1	%	125	-	-	-
Toluene-d8 (surr.)	1	%	115	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	-	-
TRH C6-C10	20	mg/kg	< 20	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	-	-
TRH >C10-C16	50	mg/kg	< 50	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	-	-
TRH >C16-C34	100	mg/kg	< 100	< 100	-	-
TRH >C34-C40	100	mg/kg	< 100	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	-
Acenaphthene	0.5	mg/kg	< 0.5	-	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	-
Anthracene	0.5	mg/kg	< 0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Chrysene	0.5	mg/kg	< 0.5	-	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	-	-
Fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Fluorene	0.5	mg/kg	< 0.5	-	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	-
Naphthalene	0.5	mg/kg	< 0.5	-	-	-
Phenanthrene	0.5	mg/kg	< 0.5	-	-	-
Pyrene	0.5	mg/kg	< 0.5	-	-	-
Total PAH*	0.5	mg/kg	< 0.5	-	-	-
2-Fluorobiphenyl (surr.)	1	%	110	-	-	-
p-Terphenyl-d14 (surr.)	1	%	108	-	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-BHC	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-BHC	0.05	mg/kg	< 0.05	-	-	-
d-BHC	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-

Client Sample ID			TP20_0.1	TP20_0.5	SS01	SS02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M18-Au32024	M18-Au32025	M18-Au32026	M18-Au32027
Date Sampled			Aug 22, 2018	Aug 22, 2018	Aug 22, 2018	Aug 22, 2018
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.05	mg/kg	< 0.05	-	-	-
Toxaphene	1	mg/kg	< 1	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 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	%	91	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	99	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	-	-
Total PCB*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchlorendate (surr.)	1	%	91	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	99	-	-	-
Phenols (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	1.0	mg/kg	< 1	-	-	-
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	-
4-Chloro-3-methylphenol	1.0	mg/kg	< 1	-	-	-
Pentachlorophenol	1.0	mg/kg	< 1	-	-	-
Tetrachlorophenols - Total	1.0	mg/kg	< 1	-	-	-
Total Halogenated Phenol*	1	mg/kg	< 1	-	-	-
Phenols (non-Halogenated)						
2-Cyclohexyl-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	%	99	-	-	-

Client Sample ID			TP20_0.1	TP20_0.5	SS01	SS02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M18-Au32024	M18-Au32025	M18-Au32026	M18-Au32027
Date Sampled			Aug 22, 2018	Aug 22, 2018	Aug 22, 2018	Aug 22, 2018
Test/Reference	LOR	Unit				
Chromium (hexavalent)	1	mg/kg	< 1	-	-	-
Cyanide (total)	5	mg/kg	< 5	-	-	-
Fluoride	100	mg/kg	< 100	-	-	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	7.1	-	-	-
% Moisture	1	%	1.8	8.2	23	21
Heavy Metals						
Arsenic	2	mg/kg	< 2	6.5	-	-
Beryllium	2	mg/kg	-	< 2	-	-
Boron	10	mg/kg	-	< 10	-	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	-
Chromium	5	mg/kg	< 5	25	-	-
Cobalt	5	mg/kg	-	7.6	-	-
Copper	5	mg/kg	< 5	11	-	-
Lead	5	mg/kg	15	53	5.7	5.5
Manganese	5	mg/kg	-	200	-	-
Mercury	0.1	mg/kg	< 0.1	0.1	-	-
Molybdenum	5	mg/kg	< 5	-	-	-
Nickel	5	mg/kg	< 5	16	-	-
Selenium	2	mg/kg	< 2	< 2	-	-
Silver	0.2	mg/kg	< 0.2	-	-	-
Tin	10	mg/kg	< 10	-	-	-
Zinc	5	mg/kg	12	200	-	-

Client Sample ID			SS03	SS04	SS05	SS06
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M18-Au32028	M18-Au32029	M18-Au32030	M18-Au32031
Date Sampled			Aug 22, 2018	Aug 22, 2018	Aug 22, 2018	Aug 22, 2018
Test/Reference	LOR	Unit				
% Moisture	1	%	25	17	11	17
Heavy Metals						
Lead	5	mg/kg	5.1	< 5	< 5	< 5

Client Sample ID			SS07	SS08	SS09	SS10
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M18-Au32032	M18-Au32033	M18-Au32034	M18-Au32035
Date Sampled			Aug 22, 2018	Aug 22, 2018	Aug 22, 2018	Aug 22, 2018
Test/Reference	LOR	Unit				
% Moisture	1	%	21	20	19	17
Heavy Metals						
Lead	5	mg/kg	< 5	6.1	5.4	< 5

Client Sample ID			SS12	SS13	DUP1_220818	DUP2_220818
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			M18-Au32036	M18-Au32037	M18-Au32042	M18-Au32043
Date Sampled			Aug 22, 2018	Aug 22, 2018	Aug 22, 2018	Aug 22, 2018
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	< 0.05
a-BHC	0.05	mg/kg	-	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
b-BHC	0.05	mg/kg	-	-	< 0.05	< 0.05
d-BHC	0.05	mg/kg	-	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	-	-	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Toxaphene	1	mg/kg	-	-	< 1	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	89	88
Tetrachloro-m-xylene (surr.)	1	%	-	-	110	111
% Moisture	1	%	14	12	4.7	2.0
Heavy Metals						
Arsenic	2	mg/kg	-	-	< 2	< 2
Beryllium	2	mg/kg	-	-	< 2	< 2
Boron	10	mg/kg	-	-	< 10	< 10
Cadmium	0.4	mg/kg	-	-	< 0.4	< 0.4
Chromium	5	mg/kg	-	-	< 5	< 5
Cobalt	5	mg/kg	-	-	< 5	< 5
Copper	5	mg/kg	-	-	< 5	< 5
Lead	5	mg/kg	< 5	< 5	28	17
Manganese	5	mg/kg	-	-	15	21
Mercury	0.1	mg/kg	-	-	0.3	< 0.1
Nickel	5	mg/kg	-	-	< 5	< 5
Selenium	2	mg/kg	-	-	< 2	< 2
Zinc	5	mg/kg	-	-	72	12

Client Sample ID			DUP3_220818	SS11
Sample Matrix			Soil	Soil
Eurofins | mgt Sample No.			M18-Au32044	M18-Au32068
Date Sampled			Aug 22, 2018	Aug 22, 2018
Test/Reference	LOR	Unit		
% Moisture	1	%	25	17
Heavy Metals				
Lead	5	mg/kg	9.0	< 5

PLANNING & ENVIRONMENT ACT 1987
SURF COAST PLANNING SCHEME
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Approval Number: PG19/0086
Date: 4/08/2021 Sheet No: 74 of 105

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Karen Hose

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Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Vic EPA IWRG 621 (Solids)			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Aug 27, 2018	14 Day
- Method: LTM-ORG-2010 TRH C6-C36			
Volatile Organics	Melbourne	Aug 27, 2018	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Aug 27, 2018	14 Day
- Method: TRH C6-C40 - LTM-ORG-2010			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Aug 27, 2018	14 Day
- Method: TRH C6-C40 - LTM-ORG-2010			
Polycyclic Aromatic Hydrocarbons	Melbourne	Aug 27, 2018	14 Day
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Melbourne	Aug 27, 2018	14 Day
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Melbourne	Aug 27, 2018	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Phenols (Halogenated)	Melbourne	Aug 27, 2018	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Phenols (non-Halogenated)	Melbourne	Aug 27, 2018	14 Day
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Chromium (hexavalent)	Melbourne	Aug 27, 2018	28 Day
- Method: APHA 3500-Cr Hexavalent Chromium- (Extraction:- USEPA3060)			
Cyanide (total)	Melbourne	Aug 27, 2018	14 Day
- Method: LTM-INO-4020 Total Free WAD Cyanide by CFA			
Fluoride	Melbourne	Aug 28, 2018	28 Day
- Method: LTM-INO-4150 Determination of Total Fluoride PART A – CIC			
pH (1:5 Aqueous extract at 25°C as rec.)	Melbourne	Aug 27, 2018	7 Day
- Method: LTM-GEN-7090 pH in soil by ISE			
Metals IWRG 621 : Metals M12	Melbourne	Aug 27, 2018	28 Day
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Melbourne	Aug 27, 2018	14 Day
- Method: LTM-GEN-7080 Moisture			
NEPM 2013 Metals without Cr6+ (As, Be, B, Cd, Co, Cr, Cu, Hg, Pb, Ni, Mn, Se, Zn)	Melbourne	Aug 27, 2018	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Heavy Metals	Melbourne	Aug 28, 2018	180 Day
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			

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ABN– 50 005 085 521
e.mail : EnviroSales@eurofins.com
web : www.eurofins.com.au

Melbourne
2-5 Kingston Town Close
Oakleigh VIC 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
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Lane Cove West NSW 2066
Phone : +61 2 9900 8400
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Murarrie QLD 4172
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NATA # 1261 Site # 20794

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Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Company Name: DRC Environmental Pty Ltd
Address: Suite G6/79-109 Manningham Rd
Bulleen
VIC 3105

Project Name: 135 AUSTIN STREET WINCHELSEA

Order No.:
Report #: 614096
Phone: 0402 455 638
Fax:

Received: Aug 23, 2018 4:42 PM
Due: Aug 30, 2018
Priority: 5 Day
Contact Name: -CC SRA Patrick Baldwin

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	HOLD	HOLD	Lead	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	Vic EPA IWRG 621 (Solids)	NEPM 2013 Metals without Cr6+ (As, Be, B, Cd, Co, Cr, Cu, Hg, Pb, Ni, Mn, Se, Zn)
Melbourne Laboratory - NATA Site # 1254 & 14271							X		X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X		X						
Brisbane Laboratory - NATA Site # 20794														
Perth Laboratory - NATA Site # 23736														
External Laboratory														
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**									
1	TP01_0.1	Aug 21, 2018		Soil	M18-Au31984					X	X			X
2	TP02_0.1	Aug 21, 2018		Soil	M18-Au31985						X	X		X
3	TP02_0.8	Aug 21, 2018		Soil	M18-Au31986					X	X			X
4	TP04_0.1	Aug 21, 2018		Soil	M18-Au31987						X	X		X
5	TP04_0.5	Aug 21, 2018		Soil	M18-Au31988					X	X			X
6	TP05_0.1	Aug 21, 2018		Soil	M18-Au31989						X	X		X
7	TP05_0.5	Aug 21, 2018		Soil	M18-Au31990					X	X			X
8	TP06_0.1	Aug 21, 2018		Soil	M18-Au31991						X	X		X
9	TP06_0.5	Aug 21, 2018		Soil	M18-Au31992					X	X			X
10	TP06_0.8	Aug 21, 2018		Soil	M18-Au31993						X	X		X

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ABN– 50 005 085 521
e.mail : EnviroSales@eurofins.com
web : www.eurofins.com.au

Melbourne
2-5 Kingston Town Close
Oakleigh VIC 3166
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Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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Sample Detail						Asbestos Absence /Presence	HOLD	HOLD	Lead	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	Vic EPA IWRG 621 (Solids)	NEPM 2013 Metals without Cr6+ (As, Be, B, Cd, Co, Cr, Cu, Hg, Pb, Ni, Mn, Se, Zn)
Melbourne Laboratory - NATA Site # 1254 & 14271							X		X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X		X						
Brisbane Laboratory - NATA Site # 20794														
Perth Laboratory - NATA Site # 23736														
11	TP07_0.1	Aug 21, 2018		Soil	M18-Au31994					X	X			X
12	TP07_0.5	Aug 21, 2018		Soil	M18-Au31995						X	X		X
13	TP08_0.1	Aug 21, 2018		Soil	M18-Au31996					X	X			X
14	TP08_0.8	Aug 21, 2018		Soil	M18-Au31997						X	X		X
15	TP08_1.4	Aug 21, 2018		Soil	M18-Au31998					X	X			X
16	TP09_0.1	Aug 21, 2018		Soil	M18-Au31999						X	X		X
17	TP09_0.4	Aug 21, 2018		Soil	M18-Au32000					X	X			X
18	TP09_0.8	Aug 21, 2018		Soil	M18-Au32001						X	X		X
19	TP10_0.1	Aug 21, 2018		Soil	M18-Au32002					X	X			X
20	TP10_1.0	Aug 21, 2018		Soil	M18-Au32003						X	X		X
21	TP10_2.0	Aug 21, 2018		Soil	M18-Au32004					X	X			X
22	TP11_0.1	Aug 21, 2018		Soil	M18-Au32005						X	X		X
23	TP11_0.8	Aug 21, 2018		Soil	M18-Au32006						X		X	

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Date: 4/08/2021 Sheet No: 77 of 105

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ABN– 50 005 085 521
e.mail : EnviroSales@eurofins.com
web : www.eurofins.com.au

Melbourne
2-5 Kingston Town Close
Oakleigh VIC 3166
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1/21 Smallwood Place
Murarrie QLD 4172
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Kewdale WA 6105
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Sample Detail						Asbestos Absence /Presence	HOLD	HOLD	Lead	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	Vic EPA IWRG 621 (Solids)	NEPM 2013 Metals without Cr6+ (As, Be, B, Cd, Co, Cr, Cu, Hg, Pb, Ni, Mn, Se, Zn)
Melbourne Laboratory - NATA Site # 1254 & 14271							X		X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X		X						
Brisbane Laboratory - NATA Site # 20794														
Perth Laboratory - NATA Site # 23736														
24	TP12_0.1	Aug 21, 2018		Soil	M18-Au32007					X	X			X
25	TP12_0.5	Aug 21, 2018		Soil	M18-Au32008						X	X		X
26	TP13_0.1	Aug 21, 2018		Soil	M18-Au32009					X	X			X
27	TP13_0.5	Aug 21, 2018		Soil	M18-Au32010						X	X		X
28	TP14_0.1	Aug 21, 2018		Soil	M18-Au32011					X	X			X
29	TP14_0.7	Aug 21, 2018		Soil	M18-Au32012						X	X		X
30	TP15_0.1	Aug 22, 2018		Soil	M18-Au32013					X	X			X
31	TP15_0.6	Aug 22, 2018		Soil	M18-Au32014						X		X	
32	TP16_0.1	Aug 22, 2018		Soil	M18-Au32015						X		X	
33	TP16_0.5	Aug 22, 2018		Soil	M18-Au32016						X	X		X
34	TP17_0.1	Aug 22, 2018		Soil	M18-Au32017					X	X			X
35	TP17_0.4	Aug 22, 2018		Soil	M18-Au32018						X	X		X
36	TP18_0.1	Aug 22, 2018		Soil	M18-Au32019					X	X			X

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ABN– 50 005 085 521
e.mail : EnviroSales@eurofins.com
web : www.eurofins.com.au

Melbourne
2-5 Kingston Town Close
Oakleigh VIC 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
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1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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Kewdale WA 6105
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Sample Detail						Asbestos Absence /Presence	HOLD	HOLD	Lead	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	Vic EPA IWRG 621 (Solids)	NEPM 2013 Metals without Cr6+ (As, Be, B, Cd, Co, Cr, Cu, Hg, Pb, Ni, Mn, Se, Zn)
Melbourne Laboratory - NATA Site # 1254 & 14271							X		X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X		X						
Brisbane Laboratory - NATA Site # 20794														
Perth Laboratory - NATA Site # 23736														
37	TP18_0.8	Aug 22, 2018		Soil	M18-Au32020						X	X		X
38	TP19_0.1	Aug 22, 2018		Soil	M18-Au32021					X	X			X
39	TP19_0.5	Aug 22, 2018		Soil	M18-Au32022						X	X		X
40	TP19_0.9	Aug 22, 2018		Soil	M18-Au32023					X	X			X
41	TP20_0.1	Aug 22, 2018		Soil	M18-Au32024						X		X	
42	TP20_0.5	Aug 22, 2018		Soil	M18-Au32025						X	X		X
43	SS01	Aug 22, 2018		Soil	M18-Au32026				X		X			
44	SS02	Aug 22, 2018		Soil	M18-Au32027				X		X			
45	SS03	Aug 22, 2018		Soil	M18-Au32028				X		X			
46	SS04	Aug 22, 2018		Soil	M18-Au32029				X		X			
47	SS05	Aug 22, 2018		Soil	M18-Au32030				X		X			
48	SS06	Aug 22, 2018		Soil	M18-Au32031				X		X			
49	SS07	Aug 22, 2018		Soil	M18-Au32032				X		X			

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e.mail : EnviroSales@eurofins.com
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Bulleen
VIC 3105

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Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	HOLD	HOLD	Lead	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	Vic EPA IWRG 621 (Solids)	NEPM 2013 Metals without Cr6+ (As, Be, B, Cd, Co, Cr, Cu, Hg, Pb, Ni, Mn, Se, Zn)
Melbourne Laboratory - NATA Site # 1254 & 14271							X		X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X		X						
Brisbane Laboratory - NATA Site # 20794														
Perth Laboratory - NATA Site # 23736														
50	SS08	Aug 22, 2018		Soil	M18-Au32033				X		X			
51	SS09	Aug 22, 2018		Soil	M18-Au32034				X		X			
52	SS10	Aug 22, 2018		Soil	M18-Au32035				X		X			
53	SS12	Aug 22, 2018		Soil	M18-Au32036				X		X			
54	SS13	Aug 22, 2018		Soil	M18-Au32037				X		X			
55	ACM06_0.8	Aug 21, 2018		Building Materials	M18-Au32038	X								
56	ACM08_2.0	Aug 21, 2018		Building Materials	M18-Au32039			X						
57	ACM11_1.0	Aug 21, 2018		Building Materials	M18-Au32040	X								
58	ACM20_0.8	Aug 22, 2018		Building Materials	M18-Au32041	X								
59	DUP1_220818	Aug 22, 2018		Soil	M18-Au32042					X	X			X

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SURF COAST PLANNING SCHEME
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Approval Number: PG19/0086
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ABN– 50 005 085 521
e.mail : EnviroSales@eurofins.com
web : www.eurofins.com.au

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Sample Detail						Asbestos Absence /Presence	HOLD	HOLD	Lead	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	Vic EPA IWRG 621 (Solids)	NEPM 2013 Metals without Cr6+ (As, Be, B, Cd, Co, Cr, Cu, Hg, Pb, Ni, Mn, Se, Zn)
Melbourne Laboratory - NATA Site # 1254 & 14271							X		X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X		X						
Brisbane Laboratory - NATA Site # 20794														
Perth Laboratory - NATA Site # 23736														
60	DUP2_220818	Aug 22, 2018		Soil	M18-Au32043					X	X			X
61	DUP3_220818	Aug 22, 2018		Soil	M18-Au32044				X		X			
62	TP01_0.4	Aug 21, 2018		Soil	M18-Au32045		X							
63	TP01_1.3	Aug 21, 2018		Soil	M18-Au32046		X							
64	TP02_1.3	Aug 21, 2018		Soil	M18-Au32047		X							
65	TP03_0.1	Aug 21, 2018		Soil	M18-Au32048		X							
66	TP03_1.0	Aug 21, 2018		Soil	M18-Au32049		X							
67	TP04_0.8	Aug 21, 2018		Soil	M18-Au32050		X							
68	TP05_0.7	Aug 21, 2018		Soil	M18-Au32051		X							
69	TP06_1.5	Aug 21, 2018		Soil	M18-Au32052		X							
70	TP07_1.2	Aug 21, 2018		Soil	M18-Au32053		X							
71	TP08_2.7	Aug 21, 2018		Soil	M18-Au32054		X							
72	TP09_1.2	Aug 21, 2018		Soil	M18-Au32055		X							

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ABN– 50 005 085 521
e.mail : EnviroSales@eurofins.com
web : www.eurofins.com.au

Melbourne
2-5 Kingston Town Close
Oakleigh VIC 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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

Company Name: DRC Environmental Pty Ltd
Address: Suite G6/79-109 Manningham Rd
Bulleen
VIC 3105

Project Name: 135 AUSTIN STREET WINCHELSEA

Order No.:
Report #: 614096
Phone: 0402 455 638
Fax:

Received: Aug 23, 2018 4:42 PM
Due: Aug 30, 2018
Priority: 5 Day
Contact Name: -CC SRA Patrick Baldwin

Eurofins | mgt Analytical Services Manager : Mary Makarios

Sample Detail						Asbestos Absence /Presence	HOLD	HOLD	Lead	Organochlorine Pesticides	Moisture Set	Total Recoverable Hydrocarbons	Vic EPA IWRG 621 (Solids)	NEPM 2013 Metals without Cr6+ (As, Be, B, Cd, Co, Cr, Cu, Hg, Pb, Ni, Mn, Se, Zn)
Melbourne Laboratory - NATA Site # 1254 & 14271							X		X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217						X		X						
Brisbane Laboratory - NATA Site # 20794														
Perth Laboratory - NATA Site # 23736														
73	TP10_2.7	Aug 21, 2018		Soil	M18-Au32056		X							
74	TP11_1.4	Aug 21, 2018		Soil	M18-Au32057		X							
75	TP12_1.1	Aug 21, 2018		Soil	M18-Au32058		X							
76	TP12_1.6	Aug 21, 2018		Soil	M18-Au32059		X							
77	TP13_0.9	Aug 21, 2018		Soil	M18-Au32060		X							
78	TP14_1.9	Aug 21, 2018		Soil	M18-Au32061		X							
79	TP15_2.3	Aug 22, 2018		Soil	M18-Au32062		X							
80	TP16_1.2	Aug 22, 2018		Soil	M18-Au32063		X							
81	TP17_1.7	Aug 22, 2018		Soil	M18-Au32064		X							
82	TP18_1.4	Aug 22, 2018		Soil	M18-Au32065		X							
83	TP19_2.0	Aug 22, 2018		Soil	M18-Au32066		X							
84	TP20_1.5	Aug 22, 2018		Soil	M18-Au32067		X							
85	SS11	Aug 22, 2018		Soil	M18-Au32068				X		X			

PLANNING & ENVIRONMENT ACT 1987
SURF COAST PLANNING SCHEME
This Development Plan complies with the requirements of Clause 43.04 of the Surf Coast Planning Scheme

Approval Number: PG19/0086
Date: 4/08/2021 Sheet No: 82 of 105

Digitally Signed by the Responsible Authority
Karen Hose

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ABN– 50 005 085 521
e.mail : EnviroSales@eurofins.com
web : www.eurofins.com.au

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2-5 Kingston Town Close
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Melbourne Laboratory - NATA Site # 1254 & 14271		X		X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217	X		X						
Brisbane Laboratory - NATA Site # 20794									
Perth Laboratory - NATA Site # 23736									
Test Counts	3	24	24	14	21	58	19	4	40

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. This report replaces any interim results previously issued.

Holding Times

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

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

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

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

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

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	Quality Systems Manual ver 5.1 US Department of Defense
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 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 50-150%-Phenols & PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.1 where no positive PFAS results have been reported have been reviewed and no data was affected.

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

QC Data General Comments

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

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trichlorobenzene	mg/kg	< 0.5			0.5	Pass	
Hexachlorobutadiene	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	< 0.5			0.5	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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method 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							
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			1.0	Pass	
2.6-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	< 1			1.0	Pass	
Pentachlorophenol	mg/kg	< 1			1.0	Pass	
Tetrachlorophenols - Total	mg/kg	< 1			1.0	Pass	
Method Blank							
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							
Chromium (hexavalent)	mg/kg	< 1			1	Pass	
Cyanide (total)	mg/kg	< 5			5	Pass	
Fluoride	mg/kg	< 100			100	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Arsenic	mg/kg	< 2			2	Pass	
Beryllium	mg/kg	< 2			2	Pass	
Boron	mg/kg	< 10			10	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Chromium	mg/kg	< 5			5	Pass	
Cobalt	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Lead	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Manganese	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Molybdenum	mg/kg	< 5			5	Pass	
Nickel	mg/kg	< 5			5	Pass	
Nickel	mg/kg	< 5			5	Pass	
Selenium	mg/kg	< 2			2	Pass	
Selenium	mg/kg	< 2			2	Pass	
Silver	mg/kg	< 0.2			0.2	Pass	
Tin	mg/kg	< 10			10	Pass	
Zinc	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	98			70-130	Pass	
TRH C10-C14	%	89			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	79			70-130	Pass	
1.1.1-Trichloroethane	%	88			70-130	Pass	
1.2-Dichlorobenzene	%	101			70-130	Pass	
1.2-Dichloroethane	%	106			70-130	Pass	
Benzene	%	90			70-130	Pass	
Ethylbenzene	%	96			70-130	Pass	
m&p-Xylenes	%	95			70-130	Pass	
Toluene	%	100			70-130	Pass	
Trichloroethene	%	90			70-130	Pass	
Xylenes - Total	%	93			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	77			70-130	Pass	
TRH C6-C10	%	95			70-130	Pass	
TRH >C10-C16	%	91			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	100			70-130	Pass	
Acenaphthylene	%	110			70-130	Pass	
Anthracene	%	101			70-130	Pass	
Benz(a)anthracene	%	97			70-130	Pass	
Benzo(a)pyrene	%	107			70-130	Pass	
Benzo(b&j)fluoranthene	%	101			70-130	Pass	
Benzo(g.h.i)perylene	%	102			70-130	Pass	
Benzo(k)fluoranthene	%	97			70-130	Pass	
Chrysene	%	103			70-130	Pass	
Dibenz(a.h)anthracene	%	109			70-130	Pass	
Fluoranthene	%	90			70-130	Pass	
Fluorene	%	100			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	98			70-130	Pass	
Naphthalene	%	103			70-130	Pass	
Phenanthrene	%	100			70-130	Pass	
Pyrene	%	98			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
Organochlorine Pesticides							
4.4'-DDD	%	105			70-130	Pass	
4.4'-DDE	%	126			70-130	Pass	
4.4'-DDT	%	77			70-130	Pass	
a-BHC	%	107			70-130	Pass	
Aldrin	%	116			70-130	Pass	
b-BHC	%	103			70-130	Pass	
d-BHC	%	101			70-130	Pass	
Dieldrin	%	112			70-130	Pass	
Endosulfan I	%	111			70-130	Pass	
Endosulfan II	%	101			70-130	Pass	
Endosulfan sulphate	%	101			70-130	Pass	
Endrin	%	103			70-130	Pass	
Endrin aldehyde	%	107			70-130	Pass	
Endrin ketone	%	103			70-130	Pass	
g-BHC (Lindane)	%	103			70-130	Pass	
Heptachlor	%	91			70-130	Pass	
Heptachlor epoxide	%	108			70-130	Pass	
Hexachlorobenzene	%	103			70-130	Pass	
Methoxychlor	%	82			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	99			70-130	Pass	
LCS - % Recovery							
Phenols (Halogenated)							
2-Chlorophenol	%	96			30-130	Pass	
2.4-Dichlorophenol	%	76			30-130	Pass	
2.4.5-Trichlorophenol	%	79			30-130	Pass	
2.4.6-Trichlorophenol	%	77			30-130	Pass	
2.6-Dichlorophenol	%	86			30-130	Pass	
4-Chloro-3-methylphenol	%	80			30-130	Pass	
Pentachlorophenol	%	60			30-130	Pass	
Tetrachlorophenols - Total	%	89			30-130	Pass	
LCS - % Recovery							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	%	34			30-130	Pass	
2-Methyl-4.6-dinitrophenol	%	52			30-130	Pass	
2-Methylphenol (o-Cresol)	%	93			30-130	Pass	
2-Nitrophenol	%	74			30-130	Pass	
2.4-Dimethylphenol	%	81			30-130	Pass	
2.4-Dinitrophenol	%	33			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	%	92			30-130	Pass	
4-Nitrophenol	%	63			30-130	Pass	
Dinoseb	%	52			30-130	Pass	
Phenol	%	105			30-130	Pass	
LCS - % Recovery							
Chromium (hexavalent)	%	95			70-130	Pass	
Cyanide (total)	%	98			70-130	Pass	
Fluoride	%	113			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	110			80-120	Pass	
Arsenic	%	110			80-120	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Beryllium			%	98			80-120	Pass	
Boron			%	94			80-120	Pass	
Cadmium			%	113			80-120	Pass	
Cadmium			%	114			80-120	Pass	
Chromium			%	115			80-120	Pass	
Chromium			%	114			80-120	Pass	
Cobalt			%	105			80-120	Pass	
Copper			%	118			80-120	Pass	
Copper			%	109			80-120	Pass	
Lead			%	117			80-120	Pass	
Lead			%	115			80-120	Pass	
Lead			%	120			80-120	Pass	
Manganese			%	113			80-120	Pass	
Mercury			%	94			75-125	Pass	
Mercury			%	96			75-125	Pass	
Molybdenum			%	112			80-120	Pass	
Nickel			%	109			80-120	Pass	
Nickel			%	111			80-120	Pass	
Selenium			%	105			80-120	Pass	
Selenium			%	102			80-120	Pass	
Silver			%	108			80-120	Pass	
Tin			%	113			80-120	Pass	
Zinc			%	118			80-120	Pass	
Zinc			%	112			80-120	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
4.4'-DDE	M18-Au31988	CP	%	95			70-130	Pass	
a-BHC	M18-Au31988	CP	%	85			70-130	Pass	
Aldrin	M18-Au31988	CP	%	92			70-130	Pass	
b-BHC	M18-Au31988	CP	%	84			70-130	Pass	
d-BHC	M18-Au31988	CP	%	84			70-130	Pass	
Dieldrin	M18-Au31988	CP	%	93			70-130	Pass	
Endosulfan I	M18-Au31988	CP	%	91			70-130	Pass	
Endosulfan II	M18-Au31988	CP	%	85			70-130	Pass	
Endosulfan sulphate	M18-Au31988	CP	%	90			70-130	Pass	
Endrin	M18-Au31988	CP	%	94			70-130	Pass	
Endrin aldehyde	M18-Au31988	CP	%	91			70-130	Pass	
Endrin ketone	M18-Au31988	CP	%	89			70-130	Pass	
g-BHC (Lindane)	M18-Au31988	CP	%	83			70-130	Pass	
Heptachlor	M18-Au31988	CP	%	80			70-130	Pass	
Heptachlor epoxide	M18-Au31988	CP	%	88			70-130	Pass	
Hexachlorobenzene	M18-Au31988	CP	%	82			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M18-Au31992	CP	%	114			75-125	Pass	
Beryllium	M18-Au31992	CP	%	125			75-125	Pass	
Boron	M18-Au31992	CP	%	122			75-125	Pass	
Cadmium	M18-Au31992	CP	%	114			75-125	Pass	
Chromium	M18-Au31992	CP	%	119			75-125	Pass	
Cobalt	M18-Au31992	CP	%	120			75-125	Pass	
Copper	M18-Au31992	CP	%	117			75-125	Pass	
Lead	M18-Au31992	CP	%	125			75-125	Pass	
Manganese	M18-Au31992	CP	%	107			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Mercury	M18-Au31992	CP	%	96			70-130	Pass	
Molybdenum	M18-Au31992	CP	%	121			75-125	Pass	
Nickel	M18-Au31992	CP	%	119			75-125	Pass	
Selenium	M18-Au31992	CP	%	98			75-125	Pass	
Silver	M18-Au31992	CP	%	109			75-125	Pass	
Tin	M18-Au31992	CP	%	120			75-125	Pass	
Zinc	M18-Au31992	CP	%	101			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M18-Au32002	CP	%	109			75-125	Pass	
Beryllium	M18-Au32002	CP	%	101			75-125	Pass	
Boron	M18-Au32002	CP	%	101			75-125	Pass	
Cadmium	M18-Au32002	CP	%	111			75-125	Pass	
Chromium	M18-Au32002	CP	%	118			75-125	Pass	
Cobalt	M18-Au32002	CP	%	123			75-125	Pass	
Copper	M18-Au32002	CP	%	109			75-125	Pass	
Lead	M18-Au32002	CP	%	110			75-125	Pass	
Mercury	M18-Au32002	CP	%	80			70-130	Pass	
Molybdenum	M18-Au32002	CP	%	113			75-125	Pass	
Nickel	M18-Au32002	CP	%	109			75-125	Pass	
Selenium	M18-Au32002	CP	%	98			75-125	Pass	
Silver	M18-Au32002	CP	%	105			75-125	Pass	
Tin	M18-Au32002	CP	%	115			75-125	Pass	
Zinc	M18-Au32002	CP	%	106			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	M18-Au32005	CP	%	96			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	M18-Au32005	CP	%	95			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1260	S18-Au29496	NCP	%	92			70-130	Pass	
Spike - % Recovery									
Phenols (non-Halogenated)				Result 1					
2.4-Dinitrophenol	M18-Au35237	NCP	%	42			30-130	Pass	
Spike - % Recovery									
				Result 1					
Fluoride	M18-Au32298	NCP	%	111			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
4.4'-DDE	M18-Au32007	CP	%	130			70-130	Pass	
4.4'-DDT	M18-Au32007	CP	%	79			70-130	Pass	
a-BHC	M18-Au32007	CP	%	128			70-130	Pass	
b-BHC	M18-Au32007	CP	%	129			70-130	Pass	
d-BHC	M18-Au32007	CP	%	123			70-130	Pass	
Dieldrin	M18-Au32007	CP	%	127			70-130	Pass	
Endosulfan I	M18-Au32007	CP	%	124			70-130	Pass	
Endosulfan II	M18-Au32007	CP	%	113			70-130	Pass	
Endosulfan sulphate	M18-Au32007	CP	%	115			70-130	Pass	
Endrin aldehyde	M18-Au32007	CP	%	128			70-130	Pass	
Endrin ketone	M18-Au32007	CP	%	112			70-130	Pass	
g-BHC (Lindane)	M18-Au32007	CP	%	127			70-130	Pass	
Heptachlor	M18-Au32007	CP	%	122			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heptachlor epoxide	M18-Au32007	CP	%	125			70-130	Pass	
Hexachlorobenzene	M18-Au32007	CP	%	127			70-130	Pass	
Methoxychlor	M18-Au32007	CP	%	80			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M18-Au32012	CP	%	112			75-125	Pass	
Beryllium	M18-Au32012	CP	%	96			75-125	Pass	
Boron	M18-Au32012	CP	%	103			75-125	Pass	
Cadmium	M18-Au32012	CP	%	109			75-125	Pass	
Chromium	M18-Au32012	CP	%	113			75-125	Pass	
Cobalt	M18-Au32012	CP	%	109			75-125	Pass	
Copper	M18-Au32012	CP	%	106			75-125	Pass	
Lead	M18-Au32012	CP	%	131			75-125	Fail	Q08
Manganese	M18-Au32012	CP	%	115			75-125	Pass	
Mercury	M18-Au32012	CP	%	99			70-130	Pass	
Molybdenum	M18-Au32012	CP	%	115			75-125	Pass	
Nickel	M18-Au32012	CP	%	110			75-125	Pass	
Selenium	M18-Au32012	CP	%	106			75-125	Pass	
Silver	M18-Au32012	CP	%	111			75-125	Pass	
Tin	M18-Au32012	CP	%	100			75-125	Pass	
Spike - % Recovery									
				Result 1					
Chromium (hexavalent)	M18-Au32014	CP	%	77			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M18-Au32015	CP	%	93			70-130	Pass	
Acenaphthylene	M18-Au32015	CP	%	79			70-130	Pass	
Anthracene	M18-Au32015	CP	%	89			70-130	Pass	
Benz(a)anthracene	M18-Au32015	CP	%	91			70-130	Pass	
Benzo(a)pyrene	M18-Au32015	CP	%	87			70-130	Pass	
Benzo(b&j)fluoranthene	M18-Au32015	CP	%	94			70-130	Pass	
Benzo(g.h.i)perylene	M18-Au32015	CP	%	101			70-130	Pass	
Benzo(k)fluoranthene	M18-Au32015	CP	%	99			70-130	Pass	
Chrysene	M18-Au32015	CP	%	96			70-130	Pass	
Dibenz(a.h)anthracene	M18-Au32015	CP	%	80			70-130	Pass	
Fluoranthene	M18-Au32015	CP	%	102			70-130	Pass	
Fluorene	M18-Au32015	CP	%	90			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M18-Au32015	CP	%	80			70-130	Pass	
Naphthalene	M18-Au32015	CP	%	94			70-130	Pass	
Phenanthrene	M18-Au32015	CP	%	91			70-130	Pass	
Pyrene	M18-Au32015	CP	%	99			70-130	Pass	
Spike - % Recovery									
Phenols (Halogenated)				Result 1					
2-Chlorophenol	M18-Au32015	CP	%	94			30-130	Pass	
2.4-Dichlorophenol	M18-Au32015	CP	%	72			30-130	Pass	
2.4.5-Trichlorophenol	M18-Au32015	CP	%	74			30-130	Pass	
2.4.6-Trichlorophenol	M18-Au32015	CP	%	69			30-130	Pass	
2.6-Dichlorophenol	M18-Au32015	CP	%	78			30-130	Pass	
4-Chloro-3-methylphenol	M18-Au32015	CP	%	72			30-130	Pass	
Pentachlorophenol	M18-Au32015	CP	%	64			30-130	Pass	
Tetrachlorophenols - Total	M18-Au32015	CP	%	68			30-130	Pass	
Spike - % Recovery									
Phenols (non-Halogenated)				Result 1					
2-Cyclohexyl-4.6-dinitrophenol	M18-Au32015	CP	%	43			30-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2-Methyl-4.6-dinitrophenol	M18-Au32015	CP	%	55			30-130	Pass	
2-Methylphenol (o-Cresol)	M18-Au32015	CP	%	85			30-130	Pass	
2-Nitrophenol	M18-Au32015	CP	%	75			30-130	Pass	
2.4-Dimethylphenol	M18-Au32015	CP	%	67			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	M18-Au32015	CP	%	87			30-130	Pass	
4-Nitrophenol	M18-Au32015	CP	%	73			30-130	Pass	
Dinoseb	M18-Au32015	CP	%	60			30-130	Pass	
Phenol	M18-Au32015	CP	%	91			30-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	M18-Au32020	CP	%	85			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
Benzene	M18-Au32020	CP	%	76			70-130	Pass	
Ethylbenzene	M18-Au32020	CP	%	90			70-130	Pass	
m&p-Xylenes	M18-Au32020	CP	%	88			70-130	Pass	
o-Xylene	M18-Au32020	CP	%	94			70-130	Pass	
Toluene	M18-Au32020	CP	%	85			70-130	Pass	
Xylenes - Total	M18-Au32020	CP	%	90			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M18-Au32020	CP	%	93			70-130	Pass	
TRH C6-C10	M18-Au32020	CP	%	85			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	M18-Au32022	CP	%	93			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	M18-Au32022	CP	%	93			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M18-Au32022	CP	%	100			75-125	Pass	
Beryllium	M18-Au32022	CP	%	93			75-125	Pass	
Boron	M18-Au32022	CP	%	100			75-125	Pass	
Cadmium	M18-Au32022	CP	%	106			75-125	Pass	
Chromium	M18-Au32022	CP	%	106			75-125	Pass	
Cobalt	M18-Au32022	CP	%	101			75-125	Pass	
Copper	M18-Au32022	CP	%	104			75-125	Pass	
Lead	M18-Au32022	CP	%	166			75-125	Fail	Q08
Manganese	M18-Au32022	CP	%	56			75-125	Fail	Q08
Mercury	M18-Au32022	CP	%	92			70-130	Pass	
Molybdenum	M18-Au32022	CP	%	115			75-125	Pass	
Nickel	M18-Au32022	CP	%	105			75-125	Pass	
Selenium	M18-Au32022	CP	%	103			75-125	Pass	
Silver	M18-Au32022	CP	%	108			75-125	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
4.4'-DDD	M18-Au32024	CP	%	125			70-130	Pass	
4.4'-DDE	M18-Au32024	CP	%	123			70-130	Pass	
4.4'-DDT	M18-Au32024	CP	%	72			70-130	Pass	
a-BHC	M18-Au32024	CP	%	113			70-130	Pass	
Aldrin	M18-Au32024	CP	%	123			70-130	Pass	
b-BHC	M18-Au32024	CP	%	119			70-130	Pass	
d-BHC	M18-Au32024	CP	%	101			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dieldrin	M18-Au32024	CP	%	120			70-130	Pass	
Endosulfan I	M18-Au32024	CP	%	114			70-130	Pass	
Endosulfan II	M18-Au32024	CP	%	111			70-130	Pass	
Endosulfan sulphate	M18-Au32024	CP	%	105			70-130	Pass	
Endrin	M18-Au32024	CP	%	127			70-130	Pass	
Endrin aldehyde	M18-Au32024	CP	%	121			70-130	Pass	
Endrin ketone	M18-Au32024	CP	%	108			70-130	Pass	
g-BHC (Lindane)	M18-Au32024	CP	%	111			70-130	Pass	
Heptachlor	M18-Au32024	CP	%	107			70-130	Pass	
Heptachlor epoxide	M18-Au32024	CP	%	115			70-130	Pass	
Hexachlorobenzene	M18-Au32024	CP	%	114			70-130	Pass	
Methoxychlor	M18-Au32024	CP	%	78			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Beryllium	M18-Au32032	CP	%	110			75-125	Pass	
Boron	M18-Au32032	CP	%	94			75-125	Pass	
Cadmium	M18-Au32032	CP	%	94			75-125	Pass	
Chromium	M18-Au32032	CP	%	107			75-125	Pass	
Cobalt	M18-Au32032	CP	%	99			75-125	Pass	
Copper	M18-Au32032	CP	%	107			75-125	Pass	
Lead	M18-Au32032	CP	%	101			75-125	Pass	
Manganese	M18-Au32032	CP	%	116			75-125	Pass	
Molybdenum	M18-Au32032	CP	%	101			75-125	Pass	
Nickel	M18-Au32032	CP	%	100			75-125	Pass	
Silver	M18-Au32032	CP	%	96			75-125	Pass	
Zinc	M18-Au32032	CP	%	102			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M18-Au31986	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M18-Au31986	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M18-Au31986	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M18-Au31986	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	M18-Au31986	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M18-Au31986	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	M18-Au31986	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	M18-Au31986	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M18-Au31986	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M18-Au31986	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M18-Au31986	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M18-Au31986	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M18-Au31986	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M18-Au31986	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M18-Au31986	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	M18-Au31986	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M18-Au31986	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M18-Au31986	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M18-Au31986	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M18-Au31986	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	M18-Au31986	CP	mg/kg	< 1	< 1	<1	30%	Pass	

Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M18-Au31986	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M18-Au31986	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M18-Au31986	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M18-Au31986	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M18-Au31986	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M18-Au31986	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M18-Au31986	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M18-Au31986	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M18-Au31991	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Beryllium	M18-Au31991	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M18-Au31991	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M18-Au31991	CP	mg/kg	0.4	< 0.4	58	30%	Fail	Q15
Chromium	M18-Au31991	CP	mg/kg	8.5	9.2	8.0	30%	Pass	
Cobalt	M18-Au31991	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M18-Au31991	CP	mg/kg	5.9	5.4	9.0	30%	Pass	
Lead	M18-Au31991	CP	mg/kg	45	39	14	30%	Pass	
Manganese	M18-Au31991	CP	mg/kg	30	30	2.0	30%	Pass	
Mercury	M18-Au31991	CP	mg/kg	0.1	0.3	93	30%	Fail	Q15
Molybdenum	M18-Au31991	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M18-Au31991	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Selenium	M18-Au31991	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M18-Au31991	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M18-Au31991	CP	mg/kg	12	< 10	87	30%	Fail	Q15
Zinc	M18-Au31991	CP	mg/kg	220	190	16	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M18-Au31992	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Beryllium	M18-Au31992	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M18-Au31992	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M18-Au31992	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M18-Au31992	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Cobalt	M18-Au31992	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M18-Au31992	CP	mg/kg	9.7	9.7	<1	30%	Pass	
Lead	M18-Au31992	CP	mg/kg	63	62	2.0	30%	Pass	
Manganese	M18-Au31992	CP	mg/kg	45	44	<1	30%	Pass	
Mercury	M18-Au31992	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M18-Au31992	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M18-Au31992	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Selenium	M18-Au31992	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M18-Au31992	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M18-Au31992	CP	mg/kg	10	10	3.0	30%	Pass	
Zinc	M18-Au31992	CP	mg/kg	120	120	1.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M18-Au31993	CP	%	19	19	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M18-Au32002	CP	mg/kg	2.5	2.5	1.0	30%	Pass	
Beryllium	M18-Au32002	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M18-Au32002	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M18-Au32002	CP	mg/kg	0.9	0.9	<1	30%	Pass	
Chromium	M18-Au32002	CP	mg/kg	6.1	6.1	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Cobalt	M18-Au32002	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M18-Au32002	CP	mg/kg	5.2	5.2	1.0	30%	Pass	
Lead	M18-Au32002	CP	mg/kg	31	31	<1	30%	Pass	
Manganese	M18-Au32002	CP	mg/kg	37	37	1.0	30%	Pass	
Mercury	M18-Au32002	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M18-Au32002	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M18-Au32002	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Selenium	M18-Au32002	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M18-Au32002	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tin	M18-Au32002	CP	mg/kg	12	12	2.0	30%	Pass	
Zinc	M18-Au32002	CP	mg/kg	120	120	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	M18-Au32003	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M18-Au32003	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M18-Au32003	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	M18-Au32003	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M18-Au32003	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M18-Au32003	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M18-Au32003	CP	%	5.6	5.2	7.0	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M18-Au32006	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M18-Au32006	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M18-Au32006	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M18-Au32006	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	M18-Au32006	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M18-Au32006	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	M18-Au32006	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	M18-Au32006	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M18-Au32006	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M18-Au32006	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M18-Au32006	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M18-Au32006	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M18-Au32006	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M18-Au32006	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M18-Au32006	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	M18-Au32006	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M18-Au32006	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M18-Au32006	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M18-Au32006	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M18-Au32006	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	M18-Au32006	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M18-Au32006	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M18-Au32006	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M18-Au32006	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M18-Au32006	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M18-Au32006	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	

Duplicate								
Polychlorinated Biphenyls				Result 1	Result 2	RPD		
Aroclor-1254	M18-Au32006	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1260	M18-Au32006	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Total PCB*	M18-Au32006	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Chromium (hexavalent)	M18-Au32006	CP	mg/kg	< 1	< 1	<1	30%	Pass
Cyanide (total)	M18-Au31667	NCP	mg/kg	< 5	< 5	<1	30%	Pass
Fluoride	M18-Au34457	NCP	mg/kg	110	< 100	18	30%	Pass
pH (1:5 Aqueous extract at 25°C as rec.)	M18-Au31974	NCP	pH Units	8.4	8.4	pass	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	M18-Au32011	CP	mg/kg	< 2	< 2	<1	30%	Pass
Beryllium	M18-Au32011	CP	mg/kg	< 2	< 2	<1	30%	Pass
Boron	M18-Au32011	CP	mg/kg	< 10	< 10	<1	30%	Pass
Cadmium	M18-Au32011	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	M18-Au32011	CP	mg/kg	5.0	6.1	19	30%	Pass
Cobalt	M18-Au32011	CP	mg/kg	< 5	< 5	<1	30%	Pass
Copper	M18-Au32011	CP	mg/kg	< 5	< 5	<1	30%	Pass
Lead	M18-Au32011	CP	mg/kg	< 5	< 5	<1	30%	Pass
Manganese	M18-Au32011	CP	mg/kg	7.9	9.0	12	30%	Pass
Mercury	M18-Au32011	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Molybdenum	M18-Au32011	CP	mg/kg	< 5	< 5	<1	30%	Pass
Nickel	M18-Au32011	CP	mg/kg	< 5	< 5	<1	30%	Pass
Selenium	M18-Au32011	CP	mg/kg	< 2	< 2	<1	30%	Pass
Silver	M18-Au32011	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Tin	M18-Au32011	CP	mg/kg	< 10	< 10	<1	30%	Pass
Zinc	M18-Au32011	CP	mg/kg	5.9	6.9	15	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	M18-Au32012	CP	mg/kg	< 2	< 2	<1	30%	Pass
Beryllium	M18-Au32012	CP	mg/kg	< 2	< 2	<1	30%	Pass
Boron	M18-Au32012	CP	mg/kg	< 10	< 10	<1	30%	Pass
Cadmium	M18-Au32012	CP	mg/kg	0.5	0.5	4.0	30%	Pass
Chromium	M18-Au32012	CP	mg/kg	< 5	< 5	<1	30%	Pass
Cobalt	M18-Au32012	CP	mg/kg	< 5	< 5	<1	30%	Pass
Copper	M18-Au32012	CP	mg/kg	< 5	< 5	<1	30%	Pass
Lead	M18-Au32012	CP	mg/kg	55	54	1.0	30%	Pass
Manganese	M18-Au32012	CP	mg/kg	26	26	2.0	30%	Pass
Mercury	M18-Au32012	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Molybdenum	M18-Au32012	CP	mg/kg	< 5	< 5	<1	30%	Pass
Nickel	M18-Au32012	CP	mg/kg	< 5	< 5	<1	30%	Pass
Selenium	M18-Au32012	CP	mg/kg	< 2	< 2	<1	30%	Pass
Silver	M18-Au32012	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Tin	M18-Au32012	CP	mg/kg	41	41	<1	30%	Pass
Zinc	M18-Au32012	CP	mg/kg	200	200	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	M18-Au32013	CP	%	11	11	8.0	30%	Pass

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	M18-Au32014	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	M18-Au32014	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	M18-Au32014	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	M18-Au32014	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	M18-Au32014	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	M18-Au32014	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g.h.i)perylene	M18-Au32014	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	M18-Au32014	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	M18-Au32014	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a.h)anthracene	M18-Au32014	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	M18-Au32014	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	M18-Au32014	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1.2.3-cd)pyrene	M18-Au32014	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	M18-Au32014	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	M18-Au32014	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	M18-Au32014	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Phenols (Halogenated)				Result 1	Result 2	RPD		
2-Chlorophenol	M18-Au32014	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2.4-Dichlorophenol	M18-Au32014	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2.4.5-Trichlorophenol	M18-Au32014	CP	mg/kg	< 1	< 1	<1	30%	Pass
2.4.6-Trichlorophenol	M18-Au32014	CP	mg/kg	< 1	< 1	<1	30%	Pass
2.6-Dichlorophenol	M18-Au32014	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chloro-3-methylphenol	M18-Au32014	CP	mg/kg	< 1	< 1	<1	30%	Pass
Pentachlorophenol	M18-Au32014	CP	mg/kg	< 1	< 1	<1	30%	Pass
Tetrachlorophenols - Total	M18-Au32014	CP	mg/kg	< 1	< 1	<1	30%	Pass
Duplicate								
Phenols (non-Halogenated)				Result 1	Result 2	RPD		
2-Cyclohexyl-4.6-dinitrophenol	M18-Au32014	CP	mg/kg	< 20	< 20	<1	30%	Pass
2-Methyl-4.6-dinitrophenol	M18-Au32014	CP	mg/kg	< 5	< 5	<1	30%	Pass
2-Methylphenol (o-Cresol)	M18-Au32014	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
2-Nitrophenol	M18-Au32014	CP	mg/kg	< 1	< 1	<1	30%	Pass
2.4-Dimethylphenol	M18-Au32014	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2.4-Dinitrophenol	M18-Au32014	CP	mg/kg	< 5	< 5	<1	30%	Pass
3&4-Methylphenol (m&p-Cresol)	M18-Au32014	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
4-Nitrophenol	M18-Au32014	CP	mg/kg	< 5	< 5	<1	30%	Pass
Dinoseb	M18-Au32014	CP	mg/kg	< 20	< 20	<1	30%	Pass
Phenol	M18-Au32014	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C6-C9	M18-Au32018	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
Benzene	M18-Au32018	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Ethylbenzene	M18-Au32018	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
m&p-Xylenes	M18-Au32018	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
o-Xylene	M18-Au32018	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Toluene	M18-Au32018	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Xylenes - Total	M18-Au32018	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
Naphthalene	M18-Au32018	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
TRH C6-C10	M18-Au32018	CP	mg/kg	< 20	< 20	<1	30%	Pass

Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C10-C14	M18-Au32020	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	M18-Au32020	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	M18-Au32020	CP	mg/kg	< 50	< 50	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
TRH >C10-C16	M18-Au32020	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	M18-Au32020	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	M18-Au32020	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	M18-Au32021	CP	mg/kg	7.0	5.5	25	30%	Pass
Beryllium	M18-Au32021	CP	mg/kg	< 2	< 2	<1	30%	Pass
Boron	M18-Au32021	CP	mg/kg	< 10	< 10	<1	30%	Pass
Cadmium	M18-Au32021	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	M18-Au32021	CP	mg/kg	37	31	20	30%	Pass
Cobalt	M18-Au32021	CP	mg/kg	8.2	9.0	9.0	30%	Pass
Copper	M18-Au32021	CP	mg/kg	< 5	< 5	<1	30%	Pass
Lead	M18-Au32021	CP	mg/kg	13	11	10	30%	Pass
Manganese	M18-Au32021	CP	mg/kg	130	110	13	30%	Pass
Mercury	M18-Au32021	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Molybdenum	M18-Au32021	CP	mg/kg	< 5	< 5	<1	30%	Pass
Nickel	M18-Au32021	CP	mg/kg	17	15	15	30%	Pass
Selenium	M18-Au32021	CP	mg/kg	< 2	< 2	<1	30%	Pass
Silver	M18-Au32021	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Tin	M18-Au32021	CP	mg/kg	< 10	< 10	<1	30%	Pass
Zinc	M18-Au32021	CP	mg/kg	9.9	7.5	27	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	M18-Au32022	CP	mg/kg	6.0	6.3	4.0	30%	Pass
Beryllium	M18-Au32022	CP	mg/kg	< 2	< 2	<1	30%	Pass
Boron	M18-Au32022	CP	mg/kg	< 10	< 10	<1	30%	Pass
Cadmium	M18-Au32022	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	M18-Au32022	CP	mg/kg	5.3	5.7	8.0	30%	Pass
Cobalt	M18-Au32022	CP	mg/kg	< 5	< 5	<1	30%	Pass
Copper	M18-Au32022	CP	mg/kg	7.1	7.6	8.0	30%	Pass
Lead	M18-Au32022	CP	mg/kg	170	180	5.0	30%	Pass
Manganese	M18-Au32022	CP	mg/kg	95	100	8.0	30%	Pass
Mercury	M18-Au32022	CP	mg/kg	0.3	0.3	<1	30%	Pass
Molybdenum	M18-Au32022	CP	mg/kg	< 5	< 5	<1	30%	Pass
Nickel	M18-Au32022	CP	mg/kg	< 5	< 5	<1	30%	Pass
Selenium	M18-Au32022	CP	mg/kg	< 2	< 2	<1	30%	Pass
Silver	M18-Au32022	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Tin	M18-Au32022	CP	mg/kg	62	66	6.0	30%	Pass
Zinc	M18-Au32022	CP	mg/kg	170	180	5.0	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	M18-Au32023	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4.4'-DDD	M18-Au32023	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4.4'-DDE	M18-Au32023	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4.4'-DDT	M18-Au32023	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-BHC	M18-Au32023	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	M18-Au32023	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-BHC	M18-Au32023	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-BHC	M18-Au32023	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Dieldrin	M18-Au32023	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M18-Au32023	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M18-Au32023	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M18-Au32023	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M18-Au32023	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M18-Au32023	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M18-Au32023	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	M18-Au32023	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M18-Au32023	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M18-Au32023	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M18-Au32023	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M18-Au32023	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	M18-Au32023	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M18-Au32023	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M18-Au32023	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M18-Au32023	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M18-Au32023	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M18-Au32023	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M18-Au32023	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M18-Au32023	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M18-Au32023	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M18-Au32023	CP	%	3.7	3.9	7.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Beryllium	M18-Au32031	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M18-Au32031	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M18-Au32031	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M18-Au32031	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Cobalt	M18-Au32031	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M18-Au32031	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	M18-Au32031	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Manganese	M18-Au32031	CP	mg/kg	16	18	15	30%	Pass	
Molybdenum	M18-Au32031	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M18-Au32031	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Silver	M18-Au32031	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Zinc	M18-Au32031	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Beryllium	M18-Au32032	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Boron	M18-Au32032	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Cadmium	M18-Au32032	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M18-Au32032	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Cobalt	M18-Au32032	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	M18-Au32032	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	M18-Au32032	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Manganese	M18-Au32032	CP	mg/kg	14	14	2.0	30%	Pass	
Molybdenum	M18-Au32032	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M18-Au32032	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Silver	M18-Au32032	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Zinc	M18-Au32032	CP	mg/kg	< 5	< 5	<1	30%	Pass	

Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M18-Au32033	CP	%	20	22	6.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	M18-Au32068	CP	%	17	18	2.0	30%	Pass	

PLANNING & ENVIRONMENT ACT 1987
SURF COAST PLANNING SCHEME
This Development Plan complies with the requirements of Clause 43.04 of the Surf Coast Planning Scheme

Approval Number: PG19/0086
Date: 4/08/2021 Sheet No: 101 of 105

Digitally Signed by the Responsible Authority
Karen Hose

THIS IS NOT A BUILDING APPROVAL

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
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference
Q15	The RPD reported passes Eurofins | mgt's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised By

Mary Makarios	Analytical Services Manager
Alex Petridis	Senior Analyst-Metal (VIC)
Harry Bacalis	Senior Analyst-Volatile (VIC)
Joseph Edouard	Senior Analyst-Organic (VIC)
Michael Brancati	Senior Analyst-Inorganic (VIC)
Nibha Vaidya	Senior Analyst-Asbestos (NSW)

Glenn Jackson
National Operations 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.

APPENDIX H – PHOTO LOG

Plate 1: Witcombe St (W to E from the site)

Plate 2: north boundary of the site (NW to SE from the site)

Plate 3: Witcombe St (SE to NW from the site)