



Report Type:
Soil Salinity Investigation

Project Location:
290-308 Aldington Road and 59-63 Abbotts Road Kemp's Creek NSW
Client Name:
ESR Australia

13 December 2021
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DOCUMENT CONTROL

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The findings presented in this report are based on specific data and information made available during the course of this project. To the best of Alliance's knowledge, these findings represent a reasonable interpretation of the general condition of the site at the time of report completion.

No warranties are made as to the information provided in this report. All conclusions and recommendations made in this report are of the professional opinions of personnel involved with the project and while normal checking of the accuracy of data has been conducted, any circumstances outside the scope of this report or which are not made known to personnel and which may impact on those opinions is not the responsibility of Alliance.

Logs, figures, and drawings are generated for this report based on individual Alliance consultant interpretations of nominated data, as well as observations made at the time fieldwork was undertaken.

Data and/or information presented in this report must not be redrawn for its inclusion in other reports, plans or documents, nor should that data and/or information be separated from this report in any way.

Should additional information that may impact on the findings of this report be encountered or site conditions change, Alliance reserves the right to review and amend this report.

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1. Introduction

1.1. Project Background

Alliance Geotechnical Pty Ltd (Alliance) was engaged by ESR Australia to undertake a Soil Salinity Investigation at 290-308 Aldington Road and 59-63 Abbots Road Kemps Creek NSW (the Site) (refer **Figure 1**, with the 'site' boundaries outlined in **Figure 2**).

It is understood that the client wishes to redevelop the property and as part of the development application, a salinity investigation must be undertaken in accordance with the requirements of "Site investigation for Urban Salinity" prepared by the Department of Land and Water Conservation (DLWC) (2002).

1.2. Proposed Development

Alliance understand that the site is proposed for redevelopment, comprising a subdivision consisting of seven industrial warehouses with associated awnings and ground level carparks, as well as a detention basin in the southern west of the site, with an arterial roadway separating the structures.

1.3. Objectives

The primary objective of this investigation was to assess the salinity of subsurface soils and the potential adverse impact they may have on the proposed redevelopment.

1.4. Scope of Work

Alliance undertook the following scope of works to address the project objective:

- Review available desktop information to assess the site's geological conditions and salinity potential including geological, hydrogeological and soil landscape maps.
- Site inspection to confirm visual indicators of salinity and landform features that may influence any salinity impacts associated with the terrain.
- Intrusive soil investigation at fifteen (15) sampling locations extended to 2.5m depth or prior refusal on rock and collection of soil samples at 0.5m intervals.
- Laboratory analysis of selected soil samples and interpretation of laboratory data.
- Documentation of findings from field investigation and laboratory analysis.
- Provision of recommendations for management of identified salinity issues (if any) with due regard to the proposed site redevelopment.

1.5. Regulatory Framework

The following regulatory framework and guidelines were considered during the preparation of this report:

- *Australian Standard (AS) 2159-2009 Piling – Design and Installation.*
- Department of Infrastructure, Planning and Natural Resources (DIPNR) (2002) *Guidelines to Accompany Map of Salinity Potential for Western Sydney.*
- DLWC (2002) *Site Investigations for Urban Salinity.*
- Department of Primary Industries (DPI) (2014) *Salinity Training Manual.*

- Western Sydney Regional Organisation of Councils Ltd (WSROC) (2003) *Western Sydney Salinity Code of Practice*.

2. Site Setting

2.1. Site Identification

Site identification details are presented in **Table 2-1**. The locality of the site is presented in **Figure 1**, with the general layout and site boundaries depicted in **Figure 2**.

Table 2-1 Site Identification Information

Site Address	290-308 Aldington Road and 59-63 Abbots Road Kemp's Creek NSW
Cadastral Identification	Lots 11, 12, & 13 in DP253503
Geographical Coordinates	-33.857311, 150.799091
Site Area	Approximately 32 hectares (ha) (Source: Six Maps - https://maps.six.nsw.gov.au/)
Zoning	IN1: General Industrial
Current Land Use	Rural Residential
Proposed Land Use	Industrial/commercial
Local Government Agency	Penrith City Council

2.2. Site Conditions and Surrounding Environment

A summary of local topography, geology, soil landscapes and hydrogeological information is tabulated below.

Table 2-2 Summary of Site Conditions and Surround Environment

Geology	The NSW Geological Survey produced Wollongong 100,000 Geological Sheet indicates that site lithology is Bringelly Shale, comprising shale, carbonaceous claystone, laminate, fine to medium grained lithic sandstone, rare coal and tuff (https://resourcesandgeoscience.nsw.gov.au/miners-and-explorers/geoscience-information/products-and-data/maps/geological-maps/1-100-000).
Soil Landscape	The majority of the site is within the Luddenham soil landscape, which comprises shallow (<100 cm) dark Podzolic Soils or massive Earthy Clays on crests; moderately deep (70–150 cm) Red Podzolic Soils on upper slopes; moderately deep (<150 cm) Yellow Podzolic Soils and Prairie Soils on lower slopes and drainage lines. The far west portion of the site is within the Blacktown Soil Landscape, which comprise of shallow to moderately deep (>100 cm) hard setting mottled texture contrast soils, red and brown podzolic soils on crests grading to yellow podzolic soils on lower slopes and in drainage lines. (Source: https://www.environment.nsw.gov.au/eSpade2WebApp)
Topography	Regional topography consists of low rolling to steep low hills. Local relief 50–120 m, slopes 5–20%. Convex narrow (20–300 m) ridges and hillcrests grade into moderately inclined sideslopes with narrow concave drainage lines. Moderately inclined slopes of 10–15% are the dominant landform elements. https://www.environment.nsw.gov.au/eSpade2WebApp)
Site Elevation	The site is located at an elevation between approximately 15 to 60 m Australian Height Datum (AHD). The site is heavily sloped towards the west.
Site Drainage	Drainage in unsealed areas is likely to consist of direct soil infiltration and overland flow.

2.3. Hydrogeology

Available hydrogeological data obtained for this investigation is summarised below in **Table 2-3**.

Table 2-3 Background Hydrogeological Information

Aquifer Types	Unconfined in unconsolidated alluvial sediments Unconfined to semi-confined in fractured rock along structures Vertical and lateral flow components Local perching above clay-rich layers (seasonal)
Hydraulic Conductivity	Moderate Range: 10 ⁻² m – 10m per day
Aquifer Transmissivity	Low to moderate Range: <2-20 ⁻² m per day
Specific Yield	Moderate Range: 5-15%
Hydraulic Gradient	Gentle to intermediate Range: <10–30%
Groundwater Salinity	Marginal Range: 0.8–1.6 dS/m
Depth to Water Table	Intermediate Range: 2 – 6 m
Water-bearing Zones ¹	Groundwater is likely to be unconfined along structures (bedding, joints, faults) in the fractured bedrock. Lateral flow occurs through alluvial sediments on slopes and plains.
Inferred Groundwater Flow Direction	Based on distance to the nearest surface water course and the prevailing site topography, groundwater flow direction in the vicinity of the site is inferred to be towards the west.

Notes:

¹ Sourced from <https://www.environment.nsw.gov.au/eSpade2WebApp>

3. Desktop Assessment

A review of available desktop information, aerial photography, and observations compiled during the site inspection interpretation, were compared against various indicators of potential soil salinisation present in DPI (2014). A comparison of indicator with site specific characteristics are presented in **Table 3-1**.

Table 3-1 Soil Salinity Desktop Assessment

Characteristics	Feature	Comment
Geomorphic Landform Unit(s)	Characteristic landscape position, with similar physical processes and soil types.	The site is positioned on an east to west declining mid-slope. No slope breaks were observed in proximity to the site. Rock outcrop was absent. Potential for seepage of saline groundwater is low.
Government Soil Mapping	Soil landscape characterised by no appreciable erosion, sheet gully erosion, known soil salinity and soil salinity risk mapping.	<p>Review of the eSPADE website indicates that the site lies within an area of significant salinity hazard (Mount Vernon hydrological landscape [HGL]). Numerous small salt outbreaks can occur in low lying lower slope and upper slope positions. Information provided for this Mount Vernon HGL indicate Small cyclic salt outbreaks occur on change of slope and lower slope positions within this HGL and some larger groundwater driven discharge sites also occur on floodplains and drainage lines.</p> <p>Water predominantly moves laterally through the shale layers (although vertical movement through fracturing does occur) and vertically through interbedded sandstone and sandstone fracturing (primary and secondary porosity). Considerable lateral water movement may occur at sandstone shale interface. The residence time is moderate.</p> <p>Salts are commonly sodium chloride dominant. This HGL landscape has moderate levels of land salinisation, rivers and streams carry high EC and there is a moderate salt load from this landscape.</p> <p>Review of the NSW DPIE (2002) Salinity Potential in Western Sydney, as suggested by the Penrith Development Control Plan – Volume 1 (2014), indicates the site is mapped to have moderate salinity potential.</p>
Historical Aerial Photography Observations	Evidence of gully erosion along flow pathways, evidence of salt scalding, bare soil areas, etc.	Aerial photography from the 1960s and 1970s at the time of initial rural residential development of the area indicated does not show any evidence of erosion, salt scalding or bare soil areas.
Vegetation	Presence of indicator vegetation species	Not present.
	Evidence of tree die back or dead trees	Not present.
Soil Surface Observations	Presence of white salt crust or salt stains	Not observed.
	Presence of bare soil patches	Not observed.
	Bare surface soils exhibit a fluffy appearance	Not observed.

Characteristics	Feature	Comment
	Evidence of poor water penetration, water ponding, surface sealing and crusting (hard setting)	Evidence of water ponding not observed.
	Cloudy or turbid water evident in ponded surface water	Water observed within the dams at the site exhibited cloudy or turbid water. No other ponded water observed.
	Evidence of waterlogging of soils	Not observed.
Building Structures and Pavements	Staining and marking of brickwork in contact with the ground surface	Not observed.
	Evidence of concrete corrosion on footpaths, cement pavements, and footings and piers.	Not observed.
	Mechanical breakdown of brickwork by salt growth.	Not observed.
	White staining indicating the growth of salt crystals on the surface of brickwork.	Not observed.
	Severe breakdown and loss of mortar (with accumulation of powdered mortar around the base of the wall)	Not observed.
	Corrosion of metallic pipework or structures in contact with the ground surface	Not observed.

Based on the findings of the desktop assessment, available government soil mapping and soil salinity risk mapping indicates a low potential for saline and sodic soils to be present within the immediate landscape. Evidence of soil salinity indicators were not widely observed onsite during the site inspection.

4. Sampling Methodology

4.1. Soil Sampling

Intrusive investigation and associated soil sampling works were undertaken on 06, 07, 08, 11, 12, 13, 15, 18, 19, 20, 21, & 22 October 2021. Investigation sampling was performed at fifteen (15) test pit locations (SAL01 to SAL05, PP4, PP6, TP44, TP52, TP62, TP86, TP101, TP120, TP130, and TP137). TP 101 encountered refusal on SHALE bedrock at 1.0m. Intrusive investigation was performed by excavator, and soil samples were collected from each distinctive soil horizon and/or at 0.5m intervals.

Soil profile descriptions were recorded on to test pit logs, which are presented in **Appendix A**. Test pit locations are identified on **Figure 2**.

4.2. Sample Handling Procedure

Undisturbed soil samples were extracted from the centre of the excavator bucket and placed into laboratory supplied, acid rinsed, 250 ml glass jars. Upon sealing, the sample was immediately stored in an insulated chest containing ice bricks, and transportation to the designated NATA-accredited laboratory, Eurofins Environment Testing, using strict Chain-of-Custody procedures.

A copy of the completed Chain-of-Custody certificate is presented in **Appendix B**.

4.3. Laboratory Analysis

Representative soil samples from test pit locations were assigned to be analysed for following parameters to evaluate salinity potentials of site soils at selected depths:

- Soil pH;
- Electrical Conductivity (EC);
- Resistivity;
- Sulphate; and
- Chloride

All laboratory analyses were conducted on discrete samples using NATA-registered methods. Laboratory analytical results are summarised in **Table 1**, with laboratory analytical certificates provided in **Appendix B**.

4.4. Salinity Investigation Criteria

The analytical results were interpreted with respect to the criteria sourced from following publications:

- *Australian Standard (AS) 2159-2009 Piling – Design and Installation.*
- DLWC (2002) *Site Investigations for Urban Salinity.*
- Hazelton and Murphy (HM-2007) *Interpreting Soil Test Results: What Do All The Numbers Mean?*

Laboratory analytical results for the discrete soil samples compared to relevant salinity investigation criteria are summarised in **Table 1**.

5. Results

5.1. Sub-surface Conditions

The soil profile encountered during intrusive investigation is described as a layer of organic topsoil and silty clay fill, overlying residual clay soils.

Soil profile information obtained during the investigation is summarised in **Table 5-1** and test pit logs from these works are presented in **Appendix A**.

Table 5-1 Summary of Soil Profile

Soil Horizon	Description	Depth (mBGL)	
		Top of Horizon	Bottom of Horizon
Fill: Silty Clay	Medium Plasticity silty clay, brown	0.0	0.1-0.2
Clay (residual)	High plasticity, orange/brown with grey mottling, moist	0.1-0.2	1.0-2.5

5.2. Laboratory Analytical Results

Laboratory analytical results, compared to adopted salinity investigation criteria, are discussed below, and tabulated in **Table LAR1** at the end of this report. Laboratory analytical reports are provided in **Appendix B**.

5.2.1. Soil Salinity

The results of laboratory determined soil electrical conductivity were compared to criteria presented in DLWC (2002) and HM (2007), summarised below in **Table 5-2**.

Table 5-2 Salinity Classification

Classification	ECe dS/m
Non -Saline (NS)	<2
Slightly Saline (SS)	2 – 4
Moderately Saline (MS)	4 – 8
Highly Saline (HS)	8 – 16
Extremely Saline (ES)	>16

Laboratory results indicated that all soil samples analysed were non-saline to slightly saline, with one sample (TP52 1.0) being moderately saline. ECe values ranged between 0.11 to 4.62 dS/m. Given the electrical conductivity results of site soils (**Table 1**), there is a low potential risk posed by saline soils at the site.

5.2.2. Soil Sodicity

As part of the salinity assessment, soil susceptibility to dispersion and possible erosion was estimated with reference to ESP. The results of the laboratory determined ESP were compared to criteria presented in DLWC (2002) and HM (2007). In general, where soils contain a high sodium content (sodic soils – where the ESP is greater than 5%) the risk of soil erosion is increased; sodicity ratings are summarised in the **Table 5-3**.

Table 5-3 Sodicity Ratings

Rating	ESP
Non-Sodic	0 – 5
Marginally Sodic to Sodic	5 – 10
Strongly Sodic	> 10

Laboratory determined ESP indicated that clay soil horizons at the site are predominantly strongly sodic except for TP62-2.5, TP101-1.0 & TP130-1.5, which were non-sodic. The ESP ranged from 1.2% to 37%. In light of these results, silty CLAY fill materials onsite are likely to be susceptible to erosion and tunnelling during earthworks and construction activities.

5.2.3. Soil Aggressivity

As part of salinity assessment soil samples were tested for resistivity, sulfate and chloride in order to address soil aggressiveness to concrete and steel. The test results relating to soil aggressivity on the collected samples are summarised in below **Table 5-4**.

Table 5-4 Summary of soil aggressivity results

Sample ID	Chloride (mg/kg)	pH – 1:5 extract ¹	Sulfate (mg/kg)	Resistivity Ohm.m	Conductivity – 1:5 extract µS/cm
SAL01 2.0	440	8.7	42	38	260
SAL02 1.5	500	7.8	31	33	300
SAL03 2.5	280	8.8	26	50	200
SAL04 1.5	79	7	18	140	73
SAL05 2.0	61	6.3	12	150	67
PP4 1.5	530	5.5	<10	32	310
PP6 2.5	110	6.1	<10	120	84
TP44 2.0	16	5.9	100	130	74
TP52 2.5	500	7.8	120	28	360
TP62 1.5	380	7.5	11	42	240
TP86 0.5	29	6.7	44	210	47
TP101 1.0	20	7.6	21	110	95
TP120 2.5	74	8.7	38	74	140
TP130 1.5	<10	7.1	<10	530	19
TP137 2.5	240	6.3	<10	63	160

(1): tests were conducted on a 1:5 aqueous extract at 25C as recorded.

Based on the test results of the samples collected and in accordance with 'AS 2159 – 2009 Piling Design and Installation', the soil samples are classified as 'Non-Aggressive' for concrete and 'Non-Aggressive to Mild' for steel.

6. Regulatory Information

6.1. Regulatory Authorities

The site is located within the Penrith City Council. This Salinity Assessment must be submitted to the 'Certifying Authority' for approval and inclusion in any Development Application. The salinity assessment was completed in accordance with the DLWC (2002); further details are noted in **Section 1.5**.

6.2. Regulatory Records

A review of the publicly available online NSW EPA Record of Notices, completed by Alliance (2021), indicated that the site was not the subject of any license, applications, notices, audits or pollution studies or reduction programs under Section 308 of the *Protection of the Environment Operations Act 1997*. Surrounding areas have also not been the subject of any license, applications, notices, audits or pollution studies or reduction programs under Section 308 of the *Protection of the Environment Operations Act 1997*.

7. Conclusions

The findings of the Soil Salinity Assessment at 290-308 Aldington Road and 59-63 Abbots Road Kemps Creek NSW are summarised below.

Desktop Assessment

Review of available desktop information, historical aerial photography, and site observations indicated the following:

- The Government soil mapping (eSPADE website) indicates that the site is located within a moderate soil salinity hazard area and soils are moderately saline, with sodic areas and can occur in various topographic positions within the landscape. A review of the Penrith Development Control Plan – Volume 1 (2014), shows the site is mapped to have moderate salinity potential.
- Historical aerial photography review did not identify evidence of gully erosion along flow pathways, evidence of salt scalding or bare soil areas for areas in proximity to the site.
- Site observations did not indicate evidence of saline or sodic soils across the site.

Field Investigation

Intrusive investigation and laboratory analysis of collected soil samples from fifteen (15) test pit locations indicated that site soils were characteristically non-saline. Results from the investigation indicated the following:

- Electrical conductivity measurements indicate predominantly non-saline soil conditions at the site.

Recommendations

Based on the findings of this investigation, a Salinity Management Plan is not required for the site, as soil samples tested indicated predominantly non-saline soils. Therefore, the impact of proposed earthworks in relation to soil salinity is assessed to be low.

This report must be read in conjunction with the limitations set out in **Section 8**.

8. Statement of Limitations

The findings presented in this report are based on specific searches of relevant, government historical databases and anecdotal information that were made available during the course of this investigation. To the best of our knowledge, these observations represent a reasonable interpretation of the general condition of the site at the time of report completion.

This report has been prepared solely for the use of the client to whom it is addressed, and no other party is entitled to rely on its findings.

No warranties are made as to the information provided in this report. All conclusions and recommendations made in this report are of the professional opinions of personnel involved with the project and while normal checking of the accuracy of data has been conducted, any circumstances outside the scope of this report or which are not made known to personnel and which may impact on those opinions is not the responsibility of Alliance Geotechnical Pty Ltd. Should information become available regarding conditions at the site including previously unknown sources of contamination, Alliance Geotechnical Pty Ltd reserves the right to review the report in the context of the additional information.

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9. References

Australian Standard (2009) AS2159-2009 Piling – Design and Installation.

State Environmental Planning Policy (Sydney Region Growth Centres) 2016.

DIPNR (2002) Guidelines to Accompany Map of Salinity Potential for Western Sydney.

DLWC (2002) Site Investigations for Urban Salinity.

DPI (2014) Salinity Training Manual.

eSPADE, <https://www.environment.nsw.gov.au/eSpade2WebApp>, viewed 8 December 2020

Geological Survey of NSW (1987) Penrith 100,000 Geological Sheet.

Landcom 2004, Managing Urban Stormwater – Soils and Construction.

Natural Heritage Trust of Australia 2004, Western Sydney Salinity Code of Practice

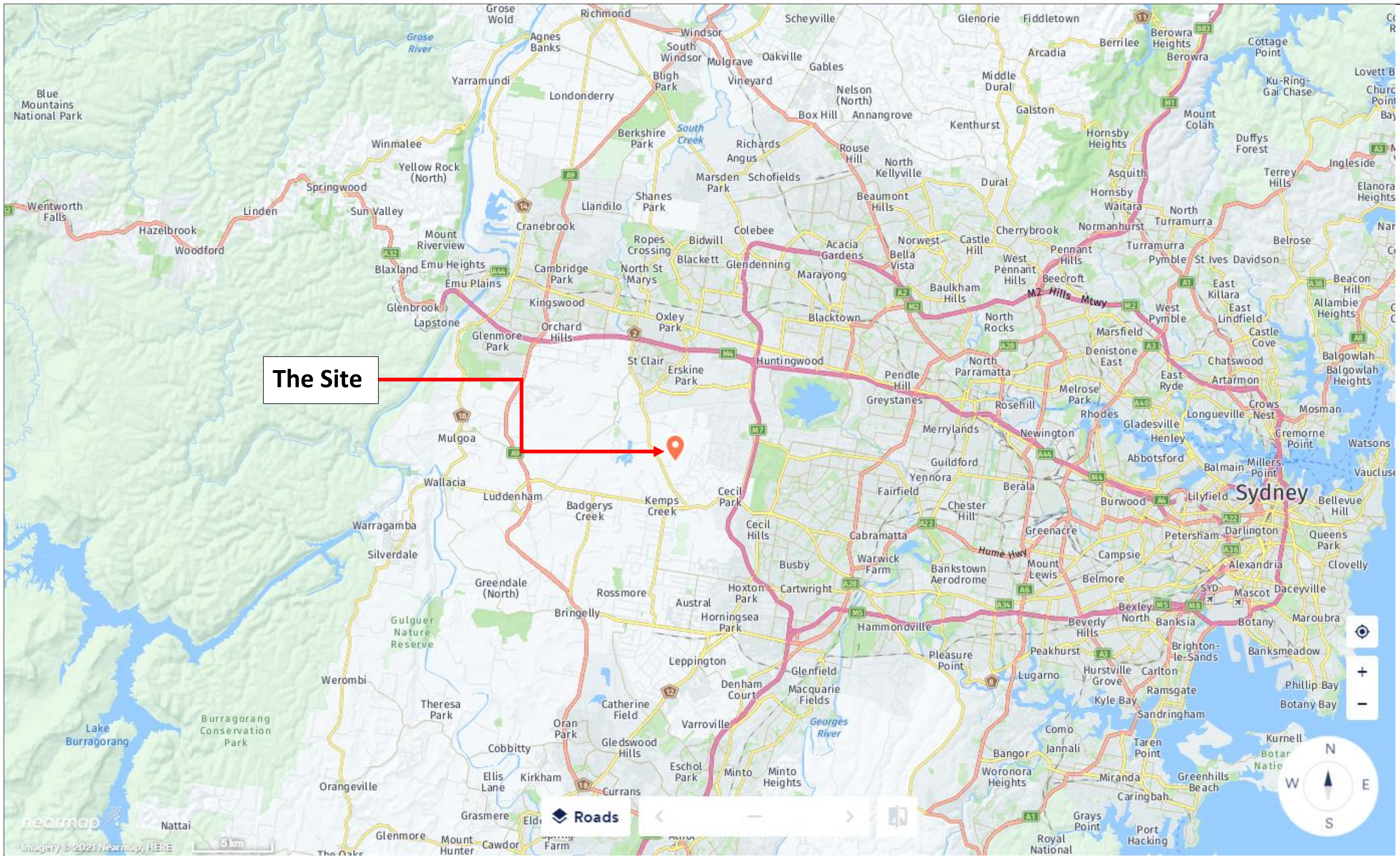
Hazelton, P. and Murphy, B. (2007) Interpreting Soil Test Results: What Do All The Numbers Mean?

WSROC (2003) Western Sydney Salinity Code of Practice.



NSW PE (2016) Camden City Council Growth Centre Precincts Development Control Plan – Schedule 1 – Austral and Leppington North

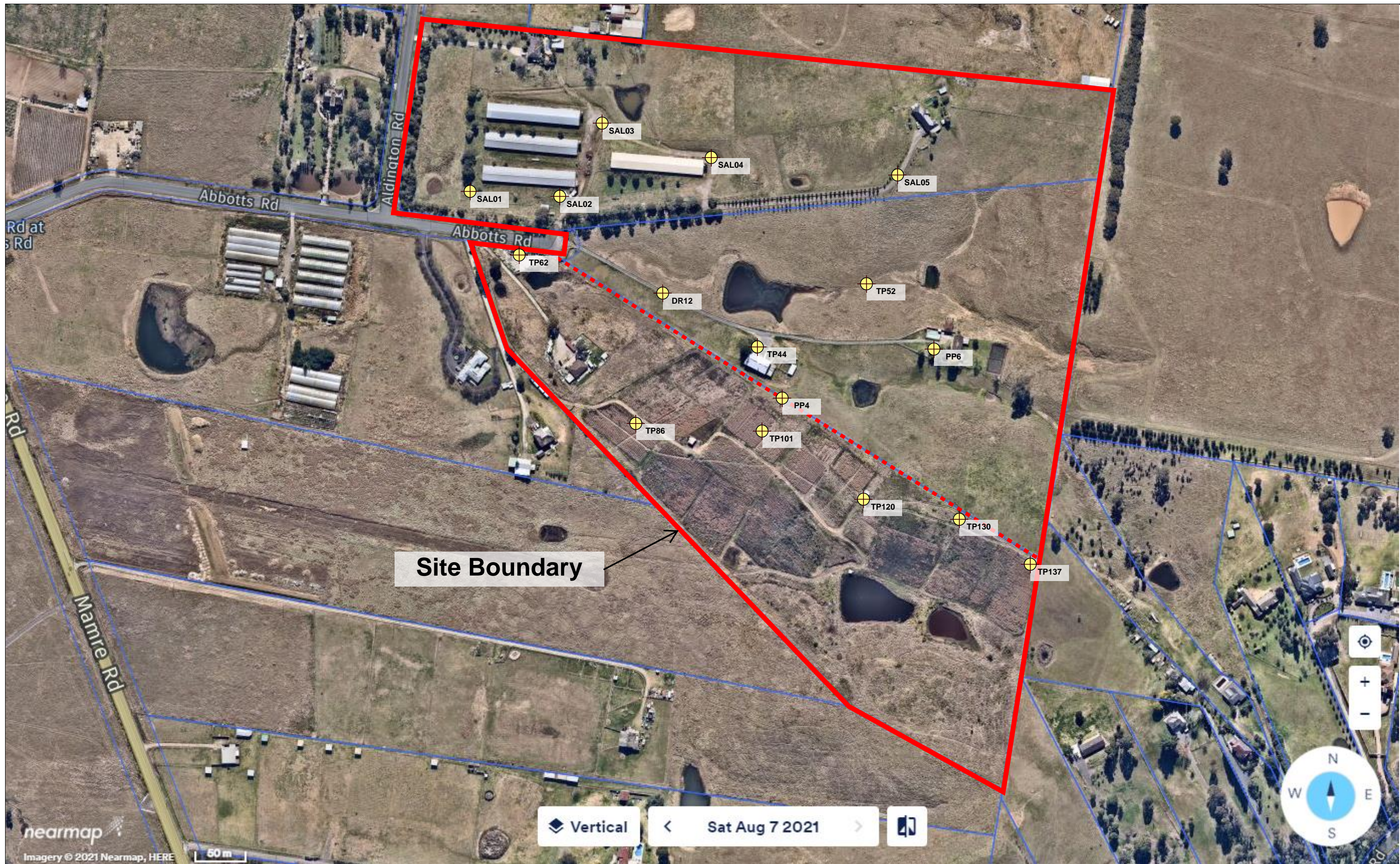
NSW PE (2013) Liverpool Growth Centre Precincts Development Control Plan

FIGURES



Site Locality

	Client Name:	ESR Australia	Figure / Drawing Number:	1	
	Project Name:	Soil Salinity Investigation	Figure / Drawing Date:	23/11/2021	
	Project Location:	290-308 Aldington Road and 59-63 Abbots Road, Kemps Creek NSW	Report Number:	13546-ER-3-1	



Site Boundary and Layout

	Client Name: ESR Australia	Figure / Drawing Number: 2	
	Project Name: Soil Salinity Investigation	Figure / Drawing Date: 23/11/2021	
	Project Location: 290-308 Aldington Road and 59-63 Abbotts Road, Kemp's Creek NSW	Report Number: 13546-ER-3-1	

TABLES

Table 1
290-308 Aldington Road and 59-63 Abbotts Road Kemps Creek NSW
Soil Salinity Summary Results
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Borehole	Sampling ID/ Depth (m)	Soil Texture Class ¹	pH ²	Electrical Conductivity		Salinity Class ³	CEC (cmol(+)/kg)	CEC Rating ⁴	Exchangable Cations ⁵				ESP ¹⁰	Sodicity Rating ¹¹
				EC 1:5 (dS/m) ⁶	ECe (dS/m) ⁶				Mg	K	Na	Ca		
SAL 01	0.5	Light clay	5	0.28	2.38	Slightly saline	-	-	-	-	-	-	-	-
	1	Light clay	6.9	0.25	2.13	Slightly saline	-	-	-	-	-	-	-	-
	1.5	Medium clay	7.5	0.28	1.96	Non-saline	-	-	-	-	-	-	-	-
	2	Medium clay	8.7	0.26	1.82	Non-saline	19	Low	8	0.3	5.4	6.7	28	Strongly Sodic
SAL 02	0.5	Light clay	5.1	0.29	2.47	Slightly saline	-	-	-	-	-	-	-	-
	1	Light clay	6.7	0.23	1.96	Non-saline	-	-	-	-	-	-	-	-
	1.5	Medium clay	7.8	0.3	2.10	Slightly saline	18	Low	6.4	0.2	4	7.7	22	Strongly Sodic
	2	Medium clay	9	0.15	1.05	Non-saline	-	-	-	-	-	-	-	-
SAL 03	0.5	Light clay	5	0.25	2.13	Slightly saline	-	-	-	-	-	-	-	-
	1	Light clay	6.9	0.25	2.13	Slightly saline	-	-	-	-	-	-	-	-
	1.5	Medium clay	7.7	0.28	1.96	Non-saline	-	-	-	-	-	-	-	-
	2	Medium clay	7.4	0.28	1.96	Non-saline	-	-	-	-	-	-	-	-
SAL 04	2.5	Medium clay	8.8	0.2	1.40	Non-saline	37	Moderate	9.1	0.3	4.9	22	14	Strongly Sodic
	0.5	Light clay	5.8	0.067	0.57	Non-saline	-	-	-	-	-	-	-	-
	1	Light clay	5.6	0.055	0.47	Non-saline	-	-	-	-	-	-	-	-
	1.5	Medium clay	7	0.073	0.51	Non-saline	14	Low	8.6	0.2	4.9	0.7	34	Strongly Sodic
SAL 05	2	Medium clay	7.3	0.06	0.42	Non-saline	-	-	-	-	-	-	-	-
	0.5	Light clay	5.6	0.064	0.54	Non-saline	-	-	-	-	-	-	-	-
	1	Light clay	5.6	0.053	0.45	Non-saline	-	-	-	-	-	-	-	-
	1.5	Medium clay	7	0.052	0.36	Non-saline	-	-	-	-	-	-	-	-
PP4	2	Medium clay	6.3	0.067	0.47	Non-saline	22	Low	11	0.4	8.4	2.5	37	Strongly Sodic
	0.5	Medium clay	5.6	0.22	1.54	Non-saline	-	-	-	-	-	-	-	-
	1	Medium clay	5.3	0.39	2.73	Slightly saline	-	-	-	-	-	-	-	-
	1.5	Medium clay	5.5	0.31	2.17	Slightly saline	-	-	-	-	-	-	-	-
PP6	2	Medium clay	5.3	0.37	2.59	Slightly saline	-	-	-	-	-	-	-	-
	0.5	Light clay	6.6	0.017	0.14	Non-saline	-	-	-	-	-	-	-	-
	1	Light clay	6.4	0.015	0.13	Non-saline	-	-	-	-	-	-	-	-
	1.5	Light clay	6.5	0.02	0.17	Non-saline	-	-	-	-	-	-	-	-
DR12	2	Light clay	6.5	0.022	0.19	Non-saline	-	-	-	-	-	-	-	-
	2.5	Medium clay	6.1	0.084	0.59	Non-saline	-	-	-	-	-	-	-	-
	0.5	Light clay	-	-	-	Non-saline	18	Low	11	0.3	1.7	5.7	9.5	Sodic
	0.5	Light clay	6.3	0.024	0.20	Non-saline	-	-	-	-	-	-	-	-
TP44	1	Light clay	6.5	0.029	0.25	Non-saline	-	-	-	-	-	-	-	-
	1.5	Light clay	6.6	0.066	0.56	Non-saline	-	-	-	-	-	-	-	-
	2	Light clay	5.9	0.074	0.63	Non-saline	22	-	15	0.3	2.8	4.1	13	Strongly Sodic
	2.5	Light clay	6.9	0.066	0.56	Non-saline	-	-	-	-	-	-	-	-
TP52	0.5	Medium clay	7.7	0.35	2.45	Slightly saline	-	-	-	-	-	-	-	-
	1	Medium clay	7.5	0.66	4.62	Moderately saline	-	-	-	-	-	-	-	-
	1.5	Medium clay	8.2	0.37	2.59	Slightly saline	-	-	-	-	-	-	-	-
	2	Medium clay	8	0.38	2.66	Slightly saline	-	-	-	-	-	-	-	-
TP62	2.5	Medium clay	7.8	0.36	2.52	Slightly saline	17	Low	9.7	0.2	2.2	5	13	Strongly Sodic
	0.5	Light clay	6.9	0.014	0.12	Non-saline	-	-	-	-	-	-	-	-
	1	Heavy clay	7.2	0.052	0.31	Non-saline	-	-	-	-	-	-	-	-
	1.5	Heavy clay	7.5	0.24	1.44	Non-saline	29	Moderate	17	0.3	6.6	4.8	23	Strongly Sodic
TP86	2	Heavy clay	6.6	0.031	0.19	Non-saline	-	-	-	-	-	-	-	-
	2.5	Heavy clay	7.4	0.32	1.92	Non-saline	-	-	-	-	-	-	-	-
	0.5	Light clay	6.7	0.047	0.40	Non-saline	25	Moderate	14	0.3	1.1	8.7	4.3	Non-sodic
	1	Light clay	6.4	0.16	1.36	Non-saline	-	-	-	-	-	-	-	-
TP101	1.5	Medium clay	6.3	0.16	1.12	Non-saline	-	-	-	-	-	-	-	-
	2	Medium clay	5.5	0.34	2.38	Slightly saline	-	-	-	-	-	-	-	-
	0.5	Medium clay	7.6	0.034	0.24	Non-saline	-	-	-	-	-	-	-	-
	1	Light clay	7.6	0.095	0.81	Non-saline	26	Moderate	6.2	0.2	0.6	19	2.3	Non-sodic
TP120	0.5	Medium clay	6.7	0.051	0.36	Non-saline	-	-	-	-	-	-	-	-
	1	Light clay	7.9	0.054	0.46	Non-saline	-	-	-	-	-	-	-	-
	1.5	Light clay	7.5	0.038	0.32	Non-saline	-	-	-	-	-	-	-	-
	2	Light clay	7.5	0.12	1.02	Non-saline	-	-	-	-	-	-	-	-
TP130	2.5	Light clay	8.7	0.14	1.19	Non-saline	24	Moderate	13	0.4	3.4	7	14	Strongly Sodic
	0.5	Light clay	6.5	0.019	0.16	Non-saline	-	-	-	-	-	-	-	-
	1	Light clay	7.5	0.021	0.18	Non-saline	-	-	-	-	-	-	-	-
	1.5	Light clay	7.1	0.019	0.16	Non-saline	21	Moderate	8.9	0.4	0.3	12	1.2	Non-sodic
TP137	2	Light clay	7.3	0.021	0.18	Non-saline	-	-	-	-	-	-	-	-
	0.5	Medium clay	6	0.015	0.11	Non-saline	-	-	-	-	-	-	-	-
	1	Medium clay	7.6	0.035	0.25	Non-saline	-	-	-	-	-	-	-	-
	1.5	Medium clay	7.8	0.061	0.43	Non-saline	-	-	-	-	-	-	-	-
TP137	2	Medium clay	6.5	0.15	1.05	Non-saline	-	-	-	-	-	-	-	-
	2.5	Medium clay	6.3	0.16	1.12	Non-saline	23	Moderate	16	0.2	6.2	0.8	27	Strongly Sodic

- Notes**
- 1 - Soil texture class based on Northcote (1979).
 - 2 - pH measured in water (1:5 soil/water ratio).
 - 3 - Soil aggressivity class for concrete piles in soil based on Table 6.4.2(C) in AS 2159-2009 Piling – Design and Installation.
 - 4 - Soil aggressivity class for steel piles in soil based on Table 6.5.2(C) in AS 2159-2009 Piling – Design and Installation
 - 5 - Converted from $\mu\text{S}/\text{cm}$ to dS/m
 - 6 - Electrical conductivity (ECe) calculated based on the water holding capacity of the soil based on soil texture class
 - 7 - Salinity class derived by comparison of ECe (dS/m) values from Table 6.2 of DLWC (2002) Site Investigation for Urban Salinity.
 - 8 - CEC rating derived from Table 5.5 of Hazellon and Murphy (2007) Interpreting Soil Test Results: What Do All The Numbers Mean?
 - 9 - Exchangable cations expressed as centimoles of positive charge per kilogram of soil (cmol(+)/kg).
 - 10 - Exchangable sodium percentage (ESP). ESP is expressed as exchangable sodium ((Na x) / cation exchange capacity (CEC).
 - 11 - Sodicity rating derived from Table 5.45 of Hazellon and Murphy (2007) Interpreting Soil Test Results: What Do All The Numbers Mean?

APPENDIX A
TEST PIT LOGS

Test Pit No: TP01
Sheet: 1 of 1
Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd	Started: 6/10/2021
Project: Detailed Site Investigation	Finished: 6/10/2021
Location: 290-308 Aldington Road and 59-63 Abbots Road Hole Location: Refer to Figure 3.	Test Pit Size: 0.3 m
Rig Type:	Hole Coordinates: E, N
Driller:	Logged: SJ
RL Surface: m	Contractor: Alliance
Bearing: ---	Checked: JW

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
				[Graphic Log: Gravelly sandy clay pattern]		Gravelly sandy CLAY, brown, low plasticity, soft moist	0-0.02(PID:2.4ppm)	M		No potential asbestos containing materials, no odours or staining
			0.5	[Graphic Log: Clayey shale pattern]		Clayey SHALE with gravels and cobbles, dark grey, well graded, fine to course grained, sub-angular, slightly moist	4-0.6(PID:4.0ppm)	M		No potential asbestos containing materials, no odours or staining
			1.0							

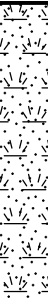
1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA GDT 11/23/21

Test Pit TP01 terminated at 1m

Test Pit No: TP02
Sheet: 1 of 1
Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd	Started: 6/10/2021
Project: Detailed Site Investigation	Finished: 6/10/2021
Location: 290-308 Aldington Road and 59-63 Abbots Road	Hole Location: Refer to Figure 3.
	Test Pit Size: 0.3 m
Rig Type:	Hole Coordinates: E, N
Driller:	Logged: SJ
RL Surface: m	Contractor: Alliance
	Bearing: ---
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
						Silty CLAY with minor gravels, brown, medium to high plasticity moist	0-0.2(PID:2.2ppm)	M		No potential asbestos containing material, no odours or staining
			0.5			Test Pit TP02 terminated at 0.4m				
			1.0							
			1.5							
			2.0							

Test Pit No: TP03
Sheet: 1 of 1
Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd	Started: 6/10/2021
Project: Detailed Site Investigation	Finished: 6/10/2021
Location: 290-308 Aldington Road and 59-63 Abbots Road Hole Location: Refer to Figure 3.	Test Pit Size: 0.3 m
Rig Type:	Hole Coordinates: E, N
Driller:	Logged: SJ
RL Surface: m	Contractor: Alliance
Bearing: ---	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
				[Dotted Pattern]		Gravelly sand with cobbles, light brown, well graded, fine to coarse grained, sub angular, moist	0-0.2 (PID: 2.6ppm)	M		No potential asbestos containing material, no odours or staining
			0.5	[Cross-hatched Pattern]		Silty CLAY with fine gravels, dark brown, low plasticity, slightly moist	0.4-0.6 (PID: 4.5ppm)	M		No potential asbestos containing material, no odours or staining
						Test Pit TP03 terminated at 0.6m				
			1.0							
			1.5							
			2.0							

Test Pit No: TP04
Sheet: 1 of 1
Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd		Started: 6/10/2021	
Project: Detailed Site Investigation		Finished: 6/10/2021	
Location: 290-308 Aldington Road and 59-63 Abbots Road		Hole Location: Refer to Figure 3.	
Rig Type:		Driller:	
RL Surface: m		Logged: SJ	
Hole Coordinates: E, N		Bearing: ---	
Contractor: Alliance		Checked:	

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
				[Cross-hatch pattern]		Clayey SHALE with gravels and cobbles, dark grey, well graded, fine to course grained, sub-angular, slightly moist	0-0.1(PID:0.2ppm)	SM		No potential asbestos containing material, no odours or staining
						Test Pit TP04 terminated at 0.1m				
			0.5							
			1.0							
			1.5							
			2.0							

Test Pit No: TP05
Sheet: 1 of 1
Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd	Started: 6/10/2021
Project: Detailed Site Investigation	Finished: 6/10/2021
Location: 290-308 Aldington Road and 59-63 Abbots Road	Hole Location: Refer to Figure 3.
	Test Pit Size: 0.3 m
Rig Type:	Hole Coordinates: E, N
RL Surface: m	Driller:
	Contractor: Alliance
	Bearing: ---
	Logged: SJ
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
				[Cross-hatch pattern]		Silty CLAY, dark brown/orange, high plasticity, moist	0-0.1 (PID: 1.8ppm)	M		No potential asbestos containing material, no odours or staining
			0.5			Test Pit TP05 terminated at 0.1m				
			1.0							
			1.5							
			2.0							

Test Pit Log

Client: ESR Australia Pty Ltd						Started: 6/10/2021			
Project: Detailed Site Investigation						Finished: 6/10/2021			
Location: 290-308 Aldington Road and 59-63 Abbots Road						Hole Location: Refer to Figure 3.			
Rig Type:						Hole Coordinates: E, N			
Driller:						Logged: SJ			
RL Surface: m						Contractor: Alliance			
Bearing: ---						Checked:			
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition Consistency/Density Index	Additional Observations
						Gravelly silty SAND with cobbles, brown, well graded, fine to course grained, sub-angular, moist	0-0.2 (PID: 0.1 ppm)	M	No potential asbestos containing material, no odours or staining
			0.5			Gravelly sandy CLAY, light brown, medium plasticity, moist		M	No potential asbestos containing material, no odours or staining
			1.0			Silty CLAY with fine gravels, dark brown, high plasticity, moist	0.8-1.0 (PID: 0.4 ppm)		
							0-1.2 (PID: 0.2 ppm)	M	No potential asbestos containing material, no odours or staining
						CLAY, orange/red, high plasticity, moist	2-1.4 (PID: 0.2 ppm)	M	No potential asbestos containing material, no odours or staining
			1.5			Test Pit TP06 terminated at 1.5m			
			2.0						

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA GDT 11/23/21

Test Pit Log

Client: ESR Australia Pty Ltd						Started: 6/10/2021			
Project: Detailed Site Investigation						Finished: 6/10/2021			
Location: 290-308 Aldington Road and 59-63 Abbots Road Hole Location: Refer to Figure 3.						Test Pit Size: 0.3 m			
Rig Type:		Hole Coordinates E, N			Driller:		Logged: SJ		
RL Surface: m		Contractor: Alliance			Bearing: ---		Checked:		
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition Consistency/Density Index	Additional Observations
			0.5			Gravelly silty SAND with cobbles, brown, well graded, fine to course grained, sub-angular, moist	0-0.2 (PID: 0.2ppm)	M	No potential asbestos containing material, no odours or staining
						CLAY, light orange with grey mottling, low to medium plasticity, moist	5-0.7 (PID: 0.3ppm)	M	No potential asbestos containing material, no odours or staining
			1.0			Test Pit TP07 terminated at 0.7m			
			1.5						
			2.0						

Test Pit Log

Client: ESR Australia Pty Ltd						Started: 6/10/2021			
Project: Detailed Site Investigation						Finished: 6/10/2021			
Location: 290-308 Aldington Road and 59-63 Abbots Road						Hole Location: Refer to Figure 3.			
Test Pit Size: 0.3 m									
Rig Type:		Hole Coordinates E, N			Driller:		Logged: SJ		
RL Surface: m		Contractor: Alliance			Bearing: ---		Checked:		
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition Consistency/Density Index	Additional Observations
						Gravelly silty SAND with cobbles, brown, well graded, fine to course grained, sub-angular, moist	0-0.2 (PID: 0.6 ppm)	M	No potential asbestos containing materials, no odours or staining
			0.5			CLAY, light brown with orange mottling, high plasticity	0.4-0.6 (PID: 0.2 ppm)	M	No potential asbestos containing materials, no odours or staining
						Test Pit TP08 terminated at 0.6m			
			1.0						
			1.5						
			2.0						

Test Pit No: TP09
Sheet: 1 of 1
Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd					Started: 6/10/2021					
Project: Detailed Site Investigation					Finished: 6/10/2021					
Location: 290-308 Aldington Road and 59-63 Abbots Road					Hole Location: Refer to Figure 3.					
					Test Pit Size: 0.3 m					
Rig Type:			Hole Coordinates E, N			Driller:		Logged: SJ		
RL Surface: m			Contractor: Alliance			Bearing: ---		Checked:		
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
			0.5		Gravelly silty SAND with cobbles, brown, well graded, fine to course grained, sub-angular, moist		0.0-0.2, 0.0-0.2ASB (PID:0.4ppm)	M		No potential asbestos containing materials, no odours or staining
			0.5		CLAY, light brown with orange mottling, high plasticity		4-0.6(PID:0.2ppm)	M		No potential asbestos containing materials, no odours or staining
			1.0			Test Pit TP09 terminated at 0.6m				
			1.5							
			2.0							


Test Pit Log

Client: ESR Australia Pty Ltd	Started: 6/10/2021
Project: Detailed Site Investigation	Finished: 6/10/2021
Location: 290-308 Aldington Road and 59-63 Abbots Road	Hole Location: Refer to Figure 3.
	Test Pit Size: 0.3 m
Rig Type:	Hole Coordinates: E, N
Driller:	Logged: SJ
RL Surface: m	Contractor: Alliance
	Bearing: ---
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition Consistency/Density Index	Additional Observations
						Gravelly sand with cobbles, brown, well graded, fine to course grained, sub angular, moist	0-0.2(PID:0.1ppm)	SM	No potential asbestos containing materials, no odours or staining
						CLAY, light brown, high plasticity, moist	0.3-0.4(PID:0.6ppm)	M	No potential asbestos containing materials, no odours or staining
			0.5			Test Pit TP10 terminated at 0.4m			
			1.0						
			1.5						
			2.0						

Test Pit No: TP11
Sheet: 1 of 1
Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd					Started: 6/10/2021					
Project: Detailed Site Investigation					Finished: 6/10/2021					
Location: 290-308 Aldington Road and 59-63 Abbots Road					Hole Location: Refer to Figure 3.					
Test Pit Size: 0.3 m										
Rig Type:			Hole Coordinates E, N			Driller:		Logged: SJ		
RL Surface: m			Contractor: Alliance			Bearing: ---		Checked:		
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
			0.5		SM	Shaley CLAY, brown, low plasticity, slightly moist	0.0-0.1(PID:0.2ppm)	SM		No potential asbestos containing materials, no odours or staining
			1.0			Test Pit TP11 terminated at 0.1m				
			1.5							
			2.0							

Test Pit No: TP12
Sheet: 1 of 1
Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd	Started: 6/10/2021
Project: Detailed Site Investigation	Finished: 6/10/2021
Location: 290-308 Aldington Road and 59-63 Abbots Road	Hole Location: Refer to Figure 3.
	Test Pit Size: 0.3 m
Rig Type:	Hole Coordinates: E, N
RL Surface: m	Driller:
	Contractor: Alliance
	Bearing: ---
	Logged: SJ
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
			0.5			Shaley CLAY, brown, low plasticity, slightly moist	0.0-0.1(PID:0.2ppm)	SM		No potential asbestos containing materials, no odours or staining
			1.0			Test Pit TP12 terminated at 0.1m				
			1.5							
			2.0							



Test Pit Log

Client: ESR Australia	Started:
Project: Detailed Site Investigation	Finished:
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Hole Coordinates: E, N
RL Surface: m	Contractor: O' Hara Brothers
Driller:	Logged: SJ
Bearing: ---	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	FILL: Sandy CLAY: brown.	ES	M	St	FILL
			0.5		-	CLAY: red brown.	ES	M	Vst	-
			1.0			NATURAL Test Pit TP13 terminated at 1m				
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia Pty Ltd	Started: 6/10/2021
Project: Detailed Site Investigation	Finished: 6/10/2021
Location: 290-308 Aldington Road and 59-63 Abbots Road	Hole Location: Refer to Figure 3.
	Test Pit Size: 0.3 m
Rig Type:	Hole Coordinates: E, N
RL Surface: m	Driller:
	Contractor: Alliance
	Bearing: ---
	Logged: SJ
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition Consistency/Density Index	Additional Observations
						Gravelly silty SAND, brown, well graded, fine to coarse grained, sub-angular, slightly moist	0-0.2 (PID: 0.2ppm)	SM	No potential asbestos containing materials, no odours or staining
			0.5			CLAY, light brown with orange mottling, high plasticity, moist	0.5-0.7 (PID: 0.3ppm)	M	No potential asbestos containing materials, no odours or staining
			1.0			Test Pit TP14 terminated at 1m			
			1.5						
			2.0						

Test Pit No: TP15
Sheet: 1 of 1
Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd	Started: 6/10/2021
Project: Detailed Site Investigation	Finished: 6/10/2021
Location: 290-308 Aldington Road and 59-63 Abbots Road Hole Location: Refer to Figure 3.	Test Pit Size: 0.3 m
Rig Type:	Hole Coordinates: E, N
Driller:	Logged: SJ
RL Surface: m	Contractor: Alliance
Bearing: ---	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
						Sandy GRAVEL, dark grey to black, well graded, fine to coarse grained, sub angular, slightly moist	0-0.2(PID:0.7ppm)	SM		No potential asbestos containing materials, no odours or staining
						CLAY, light brown with orange mottling, high plasticity, moist	0.2-0.4(PID:0.7ppm)	M		No potential asbestos containing materials, no odours or staining
			0.5							
			1.0			Test Pit TP15 terminated at 1m				
			1.5							
			2.0							

Test Pit No: TP16
Sheet: 1 of 1
Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd	Started: 6/10/2021
Project: Detailed Site Investigation	Finished: 6/10/2021
Location: 290-308 Aldington Road and 59-63 Abbots Road Hole Location: Refer to Figure 3.	Test Pit Size: 0.3 m
Rig Type:	Hole Coordinates: E, N
RL Surface: m	Driller:
	Contractor: Alliance
	Bearing: ---
	Logged: SJ
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency	Density Index	Additional Observations
						Gravelly silty SAND, brown, well graded, fine to course grained, sub angular, slightly moist					No potential asbestos containing materials, no odours or staining
						CLAY, light brown with orange mottling, high plasticity, moist					No potential asbestos containing materials, no odours or staining
			0.5								
			1.0			Test Pit TP16 terminated at 1m					
			1.5								
			2.0								

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA GDT 11/23/21

Test Pit No: TP17
Sheet: 1 of 1
Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd					Started: 6/10/2021					
Project: Detailed Site Investigation					Finished: 6/10/2021					
Location: 290-308 Aldington Road and 59-63 Abbots Road					Hole Location: Refer to Figure 3.					
Test Pit Size: 0.3 m										
Rig Type:		Hole Coordinates E, N			Driller:		Logged: SJ			
RL Surface: m		Contractor: Alliance			Bearing: ---		Checked:			
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
						Gravelly SAND, brown, well graded, fine to course grained, sub angular, slightly moist	0-0.2(PID:0.7ppm)	SM		No potential asbestos containing material, no odours or staining
			0.5			CLAY, light brown/orange with grey mottling, high plasticity, moist	0.3-0.5(PID:0.6ppm)	M		No potential asbestos containing material, no odours or staining
			1.0			Test Pit TP17 terminated at 1m				
			1.5							
			2.0							

Test Pit Log

Client: ESR Australia Pty Ltd	Started: 6/10/2021
Project: Detailed Site Investigation	Finished: 6/10/2021
Location: 290-308 Aldington Road and 59-63 Abbots Road	Hole Location: Refer to Figure 3.
	Test Pit Size: 0.3 m
Rig Type:	Hole Coordinates: E, N
RL Surface: m	Contractor: Alliance
	Driller:
	Bearing: ---
	Logged: SJ
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
			0.5			Silty SAND with minor gravels, light brown, well graded, fine to course grained, sub angular, slightly moist	0.0-0.2, 0.0-0.2ASB (PID:0.4ppm)	SM		No potential asbestos containing material, no odours or staining
			0.5			CLAY with fine gravels, brown/orange, high plasticity	5-0.7(PID:0.7ppm)	M		No potential asbestos containing material, no odours or staining
			1.0			Test Pit TP18 terminated at 1m				
			1.5							
			2.0							

Test Pit No: TP19
Sheet: 1 of 1
Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd	Started: 7/10/2021
Project: Detailed Site Investigation	Finished: 7/10/2021
Location: 290-308 Aldington Road and 59-63 Abbots Road Hole Location: Refer to Figure 3.	Test Pit Size: 0.3 m
Rig Type:	Hole Coordinates: E, N
RL Surface: m	Driller:
	Contractor: Alliance
	Bearing: ---
	Logged: SJ
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
			0.5		Clayey gravelly SHALE, brown with orange mottling, well graded, fine to course grained, sub angular	0.0-0.1(PID:2.0ppm)	SM		No potential asbestos containing material, no odours or staining
			1.0		Test Pit TP19 terminated at 1m				
			1.5						
			2.0						

Test Pit No: TP20
Sheet: 1 of 1
Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd	Started: 7/10/2021
Project: Detailed Site Investigation	Finished: 7/10/2021
Location: 290-308 Aldington Road and 59-63 Abbots Road	Hole Location: Refer to Figure 3.
	Test Pit Size: 0.3 m
Rig Type:	Hole Coordinates: E, N
RL Surface: m	Driller:
	Contractor: Alliance
	Bearing: ---
	Logged: SJ
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
			0.5			Silty SAND with fine mulch, brown, well graded, fine to course grained, sub angular, dry	0.0-0.1(PID:0.9ppm)	D		No potential asbestos containing material, no odours or staining
			1.0			Test Pit TP20 terminated at 1m				
			1.5							
			2.0							

Test Pit Log

Client: ESR Australia Pty Ltd	Started: 6/10/2021
Project: Detailed Site Investigation	Finished: 6/10/2021
Location: 290-308 Aldington Road and 59-63 Abbots Road	Hole Location: Refer to Figure 3.
	Test Pit Size: 0.3 m
Rig Type:	Hole Coordinates: E, N
Driller:	Logged: SJ
RL Surface: m	Contractor: Alliance
	Bearing: ---
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition Consistency/Density Index	Additional Observations
			0.5			Sandy CLAY, brown, low plasticity, slightly moist	0-0.2(PID:1.0ppm)	SM	No potential asbestos containing material, no odours or staining
			1.0				0-1.2(PID:2.0ppm)		
			1.5			CLAY, light brown with orange mottling, high plasticity, moist	3-1.5(PID:1.3ppm)	M	No potential asbestos containing material, no odours or staining
			2.0			Test Pit TP21 terminated at 1m			

Test Pit Log

Client: ESR Australia Pty Ltd **Started:** 7/10/2021
Project: Detailed Site Investigation **Finished:** 7/10/2021
Location: 290-308 Aldington Road and 59-63 Abbots Road **Hole Location:** Refer to Figure 3. **Test Pit Size:** 0.3 m

Rig Type: **Hole Coordinates** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** Alliance **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition Consistency/Density Index	Additional Observations
			0.0			Silty CLAY with gravels, brown, low to medium plasticity, moist	0.0-0.1, 0.0-0.1ASB (PID:1.6ppm)	M	No potential asbestos containing material, no odours or staining
			0.5			Gravelly CLAY, light brown with orange mottling, high plasticity moist		M	No potential asbestos containing material, no odours or staining
			1.0			CLAY with minor gravels, dark brown, high plasticity moist	0.0-1.2(PID:3.0ppm)	M	No potential asbestos containing material, no odours or staining
			1.5				0.8-2.0(PID:1.5ppm)		
			2.0						

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA GDT 11/23/21

Test Pit TP22 terminated at 1m

Test Pit No: TP23
Sheet: 1 of 1
Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd **Started:** 7/10/2021
Project: Detailed Site Investigation **Finished:** 7/10/2021
Location: 290-308 Aldington Road and 59-63 Abbots Road **Hole Location:** Refer to Figure 3. **Test Pit Size:** 0.3 m

Rig Type: **Hole Coordinates** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** Alliance **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
				0.0-0.1		Gravelly silty CLAY, light brown, low plasticity, slightly moist	0.0-0.1, BD2, BT2 (PID:1.6ppm)	SM		No potential asbestos containing material, no odours or staining
			0.5			CLAY with minor gravels, dark brown, high plasticity moist		M		No potential asbestos containing material, no odours or staining
			1.0				1.0-1.2 (PID:1.4ppm)			
			1.5			CLAY, light brown with orange mottling, high plasticity	.5-1.7(PID:7.1ppm)	M		No potential asbestos containing material, no odours or staining
			2.0							

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA GDT 11/23/21

Test Pit TP23 terminated at 1m



Test Pit Log

Client: ESR Australia Pty Ltd	Started: 7/10/2021
Project: Detailed Site Investigation	Finished: 7/10/2021
Location: 290-308 Aldington Road and 59-63 Abbots Road	Hole Location: Refer to Figure 3.
	Test Pit Size: 0.3 m
Rig Type:	Hole Coordinates: E, N
Driller:	Logged: SJ
RL Surface: m	Contractor: Alliance
	Bearing: ---
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
						Gravelly silty CLAY, light brown, low plasticity, slightly moist	0.0-0.1(PID:4.4ppm)	M		No potential asbestos containing material, no odours or staining
			0.5			CLAY, light brown/orange, medium to high plasticity, moist	0.5-0.7(PID:9.2ppm)	M		No potential asbestos containing material, no odours or staining
			1.0			Test Pit TP24 terminated at 1m				
			1.5							
			2.0							

Test Pit Log

Client: ESR Australia Pty Ltd	Started: 7/10/2021
Project: Detailed Site Investigation	Finished: 7/10/2021
Location: 290-308 Aldington Road and 59-63 Abbots Road	Hole Location: Refer to Figure 3.
	Test Pit Size: 0.3 m
Rig Type:	Hole Coordinates: E, N
RL Surface: m	Contractor: Alliance
	Driller:
	Bearing: ---
	Logged: SJ
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
			0.5			Gravelly silty CLAY, light brown/grey, low plasticity, moist	0.0-0.1(PID:5.2ppm)	D		No potential asbestos containing material, no odours or staining
			1.0			CLAY with fine gravels, brown/orange, low plasticity	0.5-0.6(PID:7.1ppm)	SM		No potential asbestos containing material, no odours or staining
			1.5			Test Pit TP25 terminated at 1m				
			2.0							

Test Pit Log

Client: ESR Australia Pty Ltd **Started:**
Project: Detailed Site Investigation **Finished:**
Location: 290-308 Aldington Road and 59-63 Abbots Road **Hole Location:** Refer to Figure 3. **Test Pit Size:** 0.3 m
Rig Type: **Hole Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** Alliance **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition Consistency/Density Index	Additional Observations
			0.5			Silty gravelly CLAY, brown, low plasticity	0.0-0.1, 0.0-0.1ASB (PID:7.9ppm)	SM	No potential asbestos containing materials, no odours or staining
		1.0	0-1.2(PID:8.2ppm)						
		1.5	8-2.0(PID:3.8ppm)						
			2.0			Silty CLAY with minor gravels, dark brown, medium to high plasticity		M	No potential asbestos containing materials, no odours or staining

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA GDT 11/23/21

Test Pit TP26 terminated at 1m

Test Pit Log

Client: ESR Australia	Started:
Project: Detailed Site Investigation	Finished:
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Checked:
Contractor: O' Hara Brothers	Bearing: ---

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.5		-	FILL: Sandy CLAY: brown (potentially reworked natural).	ES	M	S	FILL
			1.0		-	CLAY: brown/red, trace silt.	ES	M	VS	NATURAL
			1.5		-	Test Pit TP27 terminated at 1.5m				
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia	Started:
Project: Detailed Site Investigation	Finished:
Location: 290-308 Aldington Road & 59-63 Abbotts Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Checked:
Contractor: O' Hara Brothers	Bearing: ---



Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation				[Cross-hatch pattern]	-	FILL: Silty CLAY: brown.	ES	M	VSt	FILL
				[Diagonal lines]	-	CLAY: red brown.	ES	M	VSt	NATURAL
			0.5	[Diagonal lines]						
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							
			Test Pit TP28 terminated at 0.6m							

Test Pit Log

Client: ESR Australia	Started:
Project: Detailed Site Investigation	Finished:
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Hole Coordinates: E, N
RL Surface: m	Contractor: O' Hara Brothers
Driller:	Logged: SJ
Bearing: ---	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation				[Cross-hatch pattern]	-	FILL: Silty CLAY: brown.	ES	D	H	FILL
				[Diagonal lines /]	-	CLAY: orange/brown.	ES	D	H	NATURAL
				[Diagonal lines \]	-	Test Pit TP29 terminated at 1m				
			0.5							
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia					Started:					
Project: Detailed Site Investigation					Finished:					
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW					Test Pit Size: m					
Rig Type: 5t Hydraulic Track Mounted Excavator					Grid Coordinates: E, N		Driller:		Logged: SJ	
RL Surface: m		Contractor: O' Hara Brothers			Bearing: ---		Checked:			
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.5		-	FILL: Silty CLAY: brown.	ES	D	H	FILL
					-	CLAY: orange/brown.	ES	D	H	NATURAL
			1.0			Test Pit TP30 terminated at 1m				
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia **Started:**
Project: Detailed Site Investigation **Finished:**
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Hole Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O' Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.5		-	FILL: Silty CLAY: brown, shale gravels (irrigation piping?).	ES	M	St	FILL
			1.0		-	FILL: CLAY: brown/red, trace silt (potentially reworked natural?).	ES	M	VSt	
			1.5		-		ES			
			2.0				ES			
			2.5			Excavator Reached limit Test Pit TP31 terminated at 2.3m				
			3.0							
			3.5							

Test Pit Log










Client: ESR Australia	Started:
Project: Detailed Site Investigation	Finished:
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Checked:
Contractor: O' Hara Brothers	Bearing: ---

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations	
Excavation			0.5		-	Silty CLAY: brown (irrigation piping?).	ES	M	St		
			1.0				ES				
			1.5			-	CLAY: brown/red, trace silt.	ES	M	VSt	
			2.0				Test Pit TP32 terminated at 2m				
			2.5								
			3.0								
			3.5								

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21



Test Pit Log

Client: ESR Australia **Started:**
Project: Detailed Site Investigation **Finished:**
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Grid Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O' Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	FILL: Sandy CLAY: brown (potentially reworked natural).	ES	M	S	FILL
					-	CLAY: brown/red, trace silt.	ES	M	VS	NATURAL
			0.5							
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							
						Test Pit TP33 terminated at 0.6m				



Test Pit Log

Client: ESR Australia	Started:
Project: Detailed Site Investigation	Finished:
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Checked:
Contractor: O' Hara Brothers	Bearing: ---

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.5		-	FILL: Sandy CLAY: brown (potentially reworked natural).	ES	M	S	FILL
			1.0		-	CLAY: brown/red, trace silt.	ES	M	VS	NATURAL
			1.5							
			2.0							
			2.5							
			3.0							
			3.5			Test Pit TP34 terminated at 1.2m				

Test Pit Log

Client: ESR Australia	Started:
Project: Detailed Site Investigation	Finished:
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Hole Coordinates: E, N
RL Surface: m	Contractor: O' Hara Brothers
	Driller: ---
	Logged: SJ
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.5		-	FILL: Sandy CLAY: brown (potentially reworked natural).	ES	M	S	FILL
			1.0		-	CLAY: brown/red, trace silt.	ES	M	VS	NATURAL
			1.5							
			2.0							
			2.5							
			3.0							
			3.5			Test Pit TP35 terminated at 1.1m				

Test Pit Log

Client: ESR Australia	Started:
Project: Detailed Site Investigation	Finished:
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Hole Coordinates: E, N
RL Surface: m	Contractor: O' Hara Brothers
	Driller: Logged: SJ
	Bearing: --- Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation				/ / / / /	-	Sandy CLAY.	ES	-	-	
				/ / / / /	-	CLAY: with shale gravels.	ES	-	-	
			0.5	/ / / / /		Test Pit TP36 terminated at 0.5m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							



Test Pit Log

Client: ESR Australia	Started:
Project: Detailed Site Investigation	Finished:
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Checked:
Contractor: O' Hara Brothers	Bearing: ---

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation				[Cross-hatch pattern]	-	FILL: Sandy CLAY: brown, some gravels, tile fragments (potentially reworked natural).	ES	M	S	FILL
			0.5	[Diagonal lines]	-	CLAY: brown/red, trace silt.	ES	M	VS	NATURAL
			1.0			Test Pit TP37 terminated at 0.8m				
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia **Started:**
Project: Detailed Site Investigation **Finished:**
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Grid Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O' Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	FILL: Sandy CLAY: brown, some gravels (potentially reworked natural).	ES	M	S	FILL
			0.5		-	CLAY: brown/red, trace silt.	ES	M	VS	NATURAL
			1.0			Test Pit TP38 terminated at 0.8m				
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia	Started:
Project: Detailed Site Investigation	Finished:
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Checked:
Contractor: O' Hara Brothers	Bearing: ---

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations	
Excavation				[Cross-hatch pattern]	-	FILL: Sandy CLAY: brown (potentially reworked natural).	ES	M	S	FILL	
				[Diagonal lines pattern]	-	CLAY: brown/red, trace silt.	ES	M	VS	NATURAL	
			0.5								
			1.0								
			1.5								
			2.0								
			2.5								
			3.0								
			3.5								
			Test Pit TP39 terminated at 0.6m								

Test Pit Log

Client: ESR Australia	Started:
Project: Detailed Site Investigation	Finished:
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Checked:
Contractor: O' Hara Brothers	Bearing: ---

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation				[Cross-hatch pattern]	-	FILL: Sandy CLAY: brown (potentially reworked natural).	ES	M	S	FILL
				[Diagonal lines]	-	CLAY: brown/red, trace silt.	ES	M	VS	NATURAL
			0.5							
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							
						Test Pit TP40 terminated at 0.6m				

Test Pit No: TP41
Sheet: 1 of 1
Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd **Started:**
Project: Detailed Site Investigation **Finished:**
Location: 290-308 Aldington Road and 59-63 Abbots Road **Hole Location:** Refer to Figure 3. **Test Pit Size:** 0.3 m

Rig Type: **Hole Coordinates** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** Alliance **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
			0.5			Silty SAND, brown, well graded, fine to course grained, sub angular moist	0.0-0.1 (PID:1.5ppm)	M		No potential asbestos containing materials, no odours or staining
			1.0			CLAY, light brown/beige with orange and grey mottling, high plasticity	.9-1.0(PID:1.5ppm)	M		No potential asbestos containing materials, no odours or staining
			1.5			Test Pit TP41 terminated at 1m				
			2.0							

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA GDT 11/23/21

Test Pit No: TP42
Sheet: 1 of 1
Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd **Started:**
Project: Detailed Site Investigation **Finished:**
Location: 290-308 Aldington Road and 59-63 Abbots Road **Hole Location:** Refer to Figure 3. **Test Pit Size:** 0.3 m
Rig Type: **Hole Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** Alliance **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
			0.5			Silty SAND, brown, well graded, fine to course grained, sub angular moist with brick and terracotta rubble	0-0.1(PID:3.2ppm)	M		No potential asbestos containing materials, no odours or staining
			1.0				0-1.1(PID:1.0ppm)			
			1.5			Silty CLAY, light brown with orange mottling, low plasticity, moist	4-1.5(PID:1.7ppm)	M		
			2.0			Test Pit TP42 terminated at 1m				

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA GDT 11/23/21

Test Pit Log

Client: ESR Australia Pty Ltd		Started:	
Project: Detailed Site Investigation		Finished:	
Location: 290-308 Aldington Road and 59-63 Abbots Road		Hole Location: Refer to Figure 3.	
Rig Type:		Driller:	
RL Surface: m		Bearing: ---	
Hole Coordinates: E, N		Logged: SJ	
Contractor: Alliance		Checked:	

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
			0.5			Gravelly silty CLAY, dark brown, medium plasticity, moist	0.0-0.1, 0.0-0.1ASB (PID:2.9ppm)	M		No potential asbestos containing materials, no odours or staining
			1.0				1.0-1.1 (PID:2.ppm)			
			1.5			Silty CLAY, light orang/brown, medium to high plasticity	2-1.3 (PID:2.7ppm)	M		No potential asbestos containing materials, no odours or staining
			2.0			Test Pit TP43 terminated at 1m				

Test Pit Log

Client: ESR Australia Pty Ltd		Started:	
Project: Detailed Site Investigation		Finished:	
Location: 290-308 Aldington Road and 59-63 Abbots Road		Test Pit Size: 0.3 m	
Hole Location: Refer to Figure 3.			
Rig Type:	Hole Coordinates E, N	Driller:	Logged: SJ
RL Surface: m	Contractor: Alliance	Bearing: ---	Checked:


Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
			0.5			Sandy CLAY with gravels, low to medium plasticity, moist	0.0-0.1(PID:2.1ppm)	M		No potential asbestos containing materials, no odours or staining
			1.0				0.4-0.5(PID:1.0ppm)			
			1.5			Silty CLAY, light orang/brown, medium to high plasticity, moist	1.0-1.1(PID2.9ppm)	M		No potential asbestos containing materials, no odours or staining
			2.0				0.4-1.5(PID:1.5ppm)			

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA GDT 11/23/21

Test Pit No: TP44
Sheet: 2 of 2
Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd **Started:**
Project: Detailed Site Investigation **Finished:**
Location: 290-308 Aldington Road and 59-63 Abbots Road **Hole Location:** Refer to Figure 3. **Test Pit Size:** 0.3 m
Rig Type: **Hole Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** Alliance **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
			2.5			Silty CLAY, light orang/brown, medium to high plasticity, moist (<i>continued</i>)	2.0-2.1PID:1.7ppm	M		
			3.0							
			3.5							
			4.0			Test Pit TP44 terminated at 1m	4.4-2.5(PID:5.2ppm)			

Test Pit Log

Client: ESR Australia Pty Ltd	Started:
Project: Detailed Site Investigation	Finished:
Location: 290-308 Aldington Road and 59-63 Abbots Road Hole Location: Refer to Figure 3.	Test Pit Size: 0.3 m
Rig Type:	Hole Coordinates: E, N
RL Surface: m	Driller:
	Logged: SJ
	Contractor: Alliance
	Bearing: ---
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
						Silty CLAY, dark grey, high plasticity, wet	0.0-0.1(PID:0.6ppm)	W		No potential asbestos containing materials, no odours or staining
			0.5			Shaley CLAY, light brown/orange with grey mottling, medium plasticity	0.5-0.6(PID:3.4ppm)	W		No potential asbestos containing materials, no odours or staining
			1.0			Test Pit TP50 terminated at 1m				
			1.5							
			2.0							

Test Pit Log

Client: ESR Australia Pty Ltd		Started:	
Project: Detailed Site Investigation		Finished:	
Location: 290-308 Aldington Road and 59-63 Abbots Road		Test Pit Size: 0.3 m	
Hole Location: Refer to Figure 3.			
Rig Type:	Hole Coordinates E, N	Driller:	Logged: SJ
RL Surface: m	Contractor: Alliance	Bearing: ---	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
			0.5			Gravelly sandy CLAY, brown, low to medium plasticity, moist, water at 2.0m brick, tile and PACM observed at 2.0m	0-0.1(PID:1.7ppm)	W		Potential asbestos containing materials observed, no odours or staining
			1.0				0-1.1(PID:1.0ppm)			
			1.5							
			2.0							

Test Pit No: TP51
Sheet: 2 of 2
Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd	Started:
Project: Detailed Site Investigation	Finished:
Location: 290-308 Aldington Road and 59-63 Abbots Road	Hole Location: Refer to Figure 3.
Rig Type:	Hole Coordinates: E, N
RL Surface: m	Driller:
Contractor: Alliance	Bearing: ---
	Logged: SJ
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
			2.5			Gravelly sandy CLAY, brown, low to medium plasticity, moist, water at 2.0m brick, tile and PACM observed at 2.0m (<i>continued</i>)	<div style="border-left: 1px solid black; border-right: 1px solid black; padding: 2px;">2.0-2.1, 2.0-2.1ASB (PID:0.9ppm)</div> <div style="border-left: 1px solid black; border-right: 1px solid black; padding: 2px; margin-top: 10px;">2.3-2.4(PID:13ppm)</div>	W		
			3.0			Test Pit TP51 terminated at 1m				
			3.5							
			4.0							

Test Pit Log

Client: ESR Australia Pty Ltd	Started:
Project: Detailed Site Investigation	Finished:
Location: 290-308 Aldington Road and 59-63 Abbots Road	Hole Location: Refer to Figure 3.
	Test Pit Size: 0.3 m
Rig Type:	Hole Coordinates: E, N
Driller:	Logged: SJ
RL Surface: m	Contractor: Alliance
	Bearing: ---
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
			0.5			Silty CLAY, dark brown, medium plasticity, moist	0-0.1(PID:0.6ppm)	M		No potential asbestos containing materials, no odours or staining
							0.5-0.6(PID:0.7ppm)			
			1.0			Silty CLAY with minor gravels, grey, high plasticity, building materials from 1.5m and water at 2.0m	0-1.1(PID:0.9ppm)	M		No potential asbestos containing materials, no odours or staining
			1.5				0.5-1.6(PID:1.2ppm)			
			2.0							

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA GDT 11/23/21

Test Pit Log

Client: ESR Australia Pty Ltd	Started:
Project: Detailed Site Investigation	Finished:
Location: 290-308 Aldington Road and 59-63 Abbots Road Hole Location: Refer to Figure 3.	Test Pit Size: 0.3 m
Rig Type:	Hole Coordinates: E, N
RL Surface: m	Driller:
	Contractor: Alliance
	Bearing: ---
	Logged: SJ
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
			2.5			Silty CLAY with minor gravels, grey, high plasticity, building materials from 1.5m and water at 2.0m (<i>continued</i>)	1.0-2.1(PID:3.1ppm)			
			3.0				2.5-2.6(PID:0.9ppm)			
			3.5							
			4.0			Test Pit TP52 terminated at 1m				

Test Pit Log

Client: ESR Australia Pty Ltd **Started:**
Project: Detailed Site Investigation **Finished:**
Location: 290-308 Aldington Road and 59-63 Abbots Road **Hole Location:** Refer to Figure 3. **Test Pit Size:** 0.3 m
Rig Type: **Hole Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** Alliance **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
						Silty CLAY, dark brown, medium plasticity, moist	0.0-0.1(PID:0.9ppm)	M		No potential asbestos containing materials, no odours or staining
						Silty CLAY, orange/brown with grey mottling, high plasticity, moist		M		No potential asbestos containing materials, no odours or staining
			0.5				0.3-0.4(PID:2.1ppm)			
			1.0			Test Pit TP53 terminated at 1m				
			1.5							
			2.0							

Test Pit No: TP54
Sheet: 1 of 2
Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd	Started:
Project: Detailed Site Investigation	Finished:
Location: 290-308 Aldington Road and 59-63 Abbots Road	Test Pit Size: 0.3 m
Hole Location: Refer to Figure 3.	
Rig Type:	Hole Coordinates: E, N
Driller:	Logged: SJ
RL Surface: m	Contractor: Alliance
Bearing: ---	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
			0.5			Silty CLAY, dark brown, medium plasticity, moist, water strike at 2.0m	0-0.1(PID:0.7ppm)	W		No potential asbestos containing materials, no odours or staining
			1.0				0-1.1(PID:0.7ppm)			
			1.5							
			2.0							

Test Pit No: TP54
Sheet: 2 of 2
Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd					Started:					
Project: Detailed Site Investigation					Finished:					
Location: 290-308 Aldington Road and 59-63 Abbots Road					Hole Location: Refer to Figure 3.					
					Test Pit Size: 0.3 m					
Rig Type:			Hole Coordinates E, N			Driller:		Logged: SJ		
RL Surface: m			Contractor: Alliance			Bearing: ---		Checked:		
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
						Silty CLAY, dark brown, medium plasticity, moist, water strike at 2.0m (<i>continued</i>)	1.0-2.1(PID:0.7ppm)	W		
						Silty CLAY, light brown with orange/grey mottling, high plasticity wet		W		No potential asbestos containing materials, no odours or staining
			2.5				1.4-2.5(PID:0.6ppm)			
						Test Pit TP54 terminated at 1m				
			3.0							
			3.5							
			4.0							

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA GDT 11/23/21

Test Pit Log

Client: ESR Australia Pty Ltd	Started:
Project: Detailed Site Investigation	Finished:
Location: 290-308 Aldington Road and 59-63 Abbots Road	Hole Location: Refer to Figure 3.
	Test Pit Size: 0.3 m
Rig Type:	Hole Coordinates: E, N
Driller:	Logged: SJ
RL Surface: m	Contractor: Alliance
	Bearing: ---
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency Density Index	Additional Observations
						Silty SAND with minor gravels, dark brown, fine to medium grained, moist	0-0.1 (PID: 5.8ppm)	M		No potential asbestos containing materials, no odours or staining
						Silty CLAY, brown with orange and grey mottling, high plasticity, moist		M		No potential asbestos containing materials, no odours or staining
			0.5				5-0.6 (PID: 13.0ppm)			
			1.0			CLAY, brown, high plasticity, moist	0-1.1 (PID: 7.2ppm)	M		No potential asbestos containing materials, no odours or staining
						Test Pit TP61 terminated at 1m				
			1.5							
			2.0							

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA GDT 11/23/21

Test Pit Log

Client: ESR Australia Pty Ltd	Started:
Project: Detailed Site Investigation	Finished:
Location: 290-308 Aldington Road and 59-63 Abbots Road	Hole Location: Refer to Figure 3.
	Test Pit Size: 0.3 m
Rig Type:	Hole Coordinates: E, N
Driller:	Logged: SJ
RL Surface: m	Contractor: Alliance
	Bearing: ---
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency Density Index	Additional Observations
						Silty SAND with minor gravels, dark brown, fine to medium grained, moist	0.0-0.2(PID:7.0ppm)	M		No potential asbestos containing materials, no odours or staining
						Silty CLAY, brown with orange and grey mottling, high plasticity, moist		M		No potential asbestos containing materials, no odours or staining
			0.5				0.5-0.6(PID:1.1ppm)			
			1.0			CLAY, brown, high plasticity, moist	0.0-1.1(PID:6.1ppm)	M-W		No potential asbestos containing materials, no odours or staining
						Test Pit TP62 terminated at 1m				
			1.5				5-1.6(PID:2.1ppm)			
			2.0							

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA GDT 11/23/21

Test Pit Log

Client: ESR Australia Pty Ltd	Started:
Project: Detailed Site Investigation	Finished:
Location: 290-308 Aldington Road and 59-63 Abbots Road Hole Location: Refer to Figure 3.	Test Pit Size: 0.3 m
Rig Type:	Hole Coordinates E, N
RL Surface: m	Driller:
	Bearing: ---
	Logged: SJ
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
			0.5			Silty CLAY, brown with orange and grey mottling, high plasticity, moist	<div style="background-color: black; width: 10px; height: 10px; margin-bottom: 5px;"></div> 0.0-0.1(PID:7.6ppm)	M		No potential asbestos containing materials, no odours or staining
			1.0				<div style="background-color: black; width: 10px; height: 10px; margin-bottom: 5px;"></div> 0.5-0.6(PID:4.9ppm)			
			1.0			CLAY, brown, high plasticity, moist	<div style="background-color: black; width: 10px; height: 10px; margin-bottom: 5px;"></div> 0.0-1.1ppm(2.1ppm)	M		No potential asbestos containing materials, no odours or staining
			1.5			Test Pit TP63 terminated at 1m				
			2.0							

Test Pit No: TP64
Sheet: 1 of 1
Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd		Started:	
Project: Detailed Site Investigation		Finished:	
Location: 290-308 Aldington Road and 59-63 Abbots Road		Test Pit Size: 0.3 m	
Hole Location: Refer to Figure 3.			
Rig Type:	Hole Coordinates E, N	Driller:	Logged: SJ
RL Surface: m	Contractor: Alliance	Bearing: ---	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
			0.5			Gravelly silty CLAY, brown , high plasticity, moist	0.0-0.1(PID:4.1ppm)	M		No potential asbestos containing materials, no odours or staining
			1.0			Silty CLAY, dark brown, high plasticity, moist	0.0-1.1(PID:3.2ppm)	M		No potential asbestos containing materials, no odours or staining
			1.5			Silty CLAY, brown with orange mottling, fine gravels, high plasticity, moist				No potential asbestos containing materials, no odours or staining
			2.0			Test Pit TP64 terminated at 1m	5-1.6(PID:3.0ppm)			

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA GDT 11/23/21


Test Pit Log

Client: ESR Australia Pty Ltd	Started:		
Project: Detailed Site Investigation	Finished:		
Location: 290-308 Aldington Road and 59-63 Abbots Road Hole Location: Refer to Figure 3.	Test Pit Size: 0.3 m		
Rig Type:	Hole Coordinates: E, N	Driller:	Logged: SJ
RL Surface: m	Contractor: Alliance	Bearing: ---	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition Consistency/Density Index	Additional Observations
						Silty gravelly SAND, dark brown, well graded, fine to course grained, sun angular, moist.	0-0.1(PID:4.0ppm)	M	No potential asbestos containing materials, no odours or staining
			0.5			Silty CLAY, brown with orange mottling, high plasticity, moist.		M	No potential asbestos containing materials, no odours or staining
			1.0				0-1.1(PID:1.1ppm)		
			1.5						
			2.0						

Test Pit Log

Client: ESR Australia Pty Ltd	Started:
Project: Detailed Site Investigation	Finished:
Location: 290-308 Aldington Road and 59-63 Abbots Road Hole Location: Refer to Figure 3.	Test Pit Size: 0.3 m
Rig Type:	Hole Coordinates: E, N
Driller:	Logged: SJ
RL Surface: m	Contractor: Alliance
Bearing: ---	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
						Silty CLAY with fine gravels, brown with orange and grey mottling, high plasticity, moist, with water entering at 2.0m	1.0-2.1 (PID: 1.6ppm)	M		No potential asbestos containing materials, no odours or staining
						Test Pit TP65 terminated at 1m				
			2.5							
			3.0							
			3.5							
			4.0							

Test Pit Log

Client: ESR Australia Pty Ltd	Started:
Project: Detailed Site Investigation	Finished:
Location: 290-308 Aldington Road and 59-63 Abbots Road Hole Location: Refer to Figure 3.	Test Pit Size: 0.3 m
Rig Type:	Hole Coordinates E, N
RL Surface: m	Driller:
	Contractor: Alliance
	Bearing: ---
	Logged: SJ
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
			0.5			Silty SAND with minor gravels, dark brown, fine to medium grained, sub angular, moist	0.0-0.1(PID:4.7ppm)	M		No potential asbestos containing materials, no odours or staining
						CLAY, orange/brown with grey mottling, high plasticity, moist	6-0.7(PID:3.1ppm)	M		No potential asbestos containing materials, no odours or staining
			1.0			Test Pit TP66 terminated at 1m				
			1.5							
			2.0							

Test Pit No: TP67
Sheet: 1 of 1
Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd	Started:
Project: Detailed Site Investigation	Finished:
Location: 290-308 Aldington Road and 59-63 Abbots Road Hole Location: Refer to Figure 3.	Test Pit Size: 0.3 m
Rig Type:	Hole Coordinates: E, N
RL Surface: m	Driller:
	Bearing: ---
	Logged: SJ
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
			0.5							
			1.0							
			1.5							
			2.0							

Test Pit No: TP68
Sheet: 1 of 1
Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd	Started:
Project: Detailed Site Investigation	Finished:
Location: 290-308 Aldington Road and 59-63 Abbots Road Hole Location: Refer to Figure 3.	Test Pit Size: 0.3 m
Rig Type:	Hole Coordinates: E, N
RL Surface: m	Driller:
	Bearing: ---
	Logged: SJ
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
			0.5							
			1.0							
			1.5							
			2.0							



Test Pit No: TP69
Sheet: 1 of 1
Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd	Started:
Project: Detailed Site Investigation	Finished:
Location: 290-308 Aldington Road and 59-63 Abbots Road Hole Location: Refer to Figure 3.	Test Pit Size: 0.3 m
Rig Type:	Hole Coordinates: E, N
RL Surface: m	Driller:
	Bearing: ---
	Logged: SJ
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
			0.5							
			1.0							
			1.5							
			2.0							

Test Pit Log

Client: ESR Australia Pty Ltd						Started:			
Project: Detailed Site Investigation						Finished:			
Location: 290-308 Aldington Road and 59-63 Abbots Road						Hole Location: Refer to Figure 3.			
						Test Pit Size: 0.3 m			
Rig Type:		Hole Coordinates E, N			Driller:		Logged: SJ		
RL Surface: m		Contractor: Alliance			Bearing: ---		Checked:		
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition Consistency/Density Index	Additional Observations
						Silty CLAY, dark brown, medium plasticity, moist	0.0-0.1(PID:5.8ppm)	M	No potential asbestos containing materials, no odours or staining
						Silty CLAY, orange/brown with grey mottling, high plasticity, moist		M	No potential asbestos containing materials, no odours or staining
			0.5				0.3-0.4(PID:6.8ppm)		
			1.0			Test Pit TP70 terminated at 1m			
			1.5						
			2.0						

Test Pit No: TP71
Sheet: 1 of 1
Job No: 13546

Test Pit Log

Client: ESR Australia Pty Ltd						Started:				
Project: Detailed Site Investigation						Finished:				
Location: 290-308 Aldington Road and 59-63 Abbots Road						Hole Location: Refer to Figure 3.				
						Test Pit Size: 0.3 m				
Rig Type:		Hole Coordinates E, N			Driller:		Logged: SJ			
RL Surface: m		Contractor: Alliance			Bearing: ---		Checked:			
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
				[Cross-hatch pattern]		Silty CLAY, dark brown, medium plasticity, moist	0.0-0.1(PID:5.8ppm)	M		No potential asbestos containing materials, no odours or staining
				[Diagonal lines pattern]		Silty CLAY, orange/brown with grey mottling, high plasticity, moist		M		No potential asbestos containing materials, no odours or staining
			0.5				0.3-0.4(PID:6.8ppm)			
			1.0			Test Pit TP71 terminated at 1m				
			1.5							
			2.0							

1. NON CORED BOREHOLE ENVIROLOGS.GPJ GINT STD AUSTRALIA GDT 11/23/21

Test Pit Log

Client: ESR Australia **Started:** 19/10/2021
Project: Detailed Site Investigation **Finished:** 19/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Marker Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O' Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Sandy SILT: brown, fine to medium grained, sub-rounded sand.	ES PID=3.6ppm	SM	-	TOPSOIL
					CL-CI	Silty CLAY: low to medium plasticity, orange-brown.		M	-	NATURAL
							ES			
			0.5			Test Pit TP78 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia	Started: 19/10/2021
Project: Detailed Site Investigation	Finished: 19/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Checked:
Contractor: O' Hara Brothers	Bearing: ---

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation				[Symbol]	-	TOPSOIL: Sandy SILT: brown, fine to medium grained, sub-rounded sand.	ES PID=1.0ppm	SM	-	TOPSOIL
				[Symbol]	CL-CI	Silty CLAY: low to medium plasticity, orange-brown.	ES	M	-	NATURAL
			0.5			Test Pit TP79 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia	Started: 19/10/2021
Project: Detailed Site Investigation	Finished: 19/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Checked:
Contractor: O' Hara Brothers	Bearing: ---

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation				[Symbol]	-	TOPSOIL: Sandy SILT: brown, fine to medium grained, sub-rounded sand.	ES PID=2.2ppm	SM	-	TOPSOIL
				[Symbol]	CL-CI	Silty CLAY: low to medium plasticity, orange-brown.	ES	M	-	NATURAL
			0.5			Test Pit TP80 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia	Started: 19/10/2021
Project: Detailed Site Investigation	Finished: 19/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Hole Coordinates: E, N
RL Surface: m	Contractor: O' Hara Brothers
Driller:	Logged: SJ
Bearing: ---	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=2.1ppm	M	-	TOPSOIL
					CI-CH	Silty CLAY: medium to high plasticity, orange brown.	ES	-	-	NATURAL
			0.5			Test Pit TP81 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia **Started:** 19/10/2021
Project: Detailed Site Investigation **Finished:** 19/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Hole Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O' Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=1.3ppm	M	-	TOPSOIL
					CI-CH	Silty CLAY: medium to high plasticity, brown.	ES	-	-	NATURAL
			0.5			Test Pit TP82 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							



Test Pit Log

Client: ESR Australia	Started: 19/10/2021
Project: Detailed Site Investigation	Finished: 19/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Hole Coordinates: E, N
RL Surface: m	Contractor: O' Hara Brothers
Driller:	Logged: SJ
Bearing: ---	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=1.2ppm	M	-	TOPSOIL
					CI-CH	Silty CLAY: medium to high plasticity, brown.	ES	-	-	NATURAL
			0.5			Test Pit TP83 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia	Started: 19/10/2021
Project: Detailed Site Investigation	Finished: 19/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Hole Coordinates: E, N
RL Surface: m	Contractor: O' Hara Brothers
Driller:	Logged: SJ
Bearing: ---	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=1.3ppm	M	-	TOPSOIL
					CI-CH	Silty CLAY: medium to high plasticity, brown.	ES	-	-	NATURAL
			0.5			Test Pit TP84 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							







Test Pit Log

Client: ESR Australia **Started:** 19/10/2021
Project: Detailed Site Investigation **Finished:** 19/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Hole Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O' Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=2.3ppm	M	-	TOPSOIL
					CI-CH	Silty CLAY: medium to high plasticity, brown.	ES	-	-	NATURAL
			0.5			Test Pit TP85 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia **Started:** 19/10/2021
Project: Detailed Site Investigation **Finished:** 19/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Male Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O' Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.0		-	TOPSOIL: Silty CLAY: low plasticity, brown.	ES PID=1.8ppm	M	-	TOPSOIL
			0.5		CL	Silty CLAY: low plasticity, orange brown.		M	-	NATURAL
			1.0				ES			
			1.5				ES			
			2.0		CI	Silty CLAY: medium plasticity, grey with orange.		M	-	
		2.5				ES				
			3.0			Test Pit TP86 terminated at 2.6m				
			3.5							

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Test Pit Log

Client: ESR Australia **Started:** 19/10/2021
Project: Detailed Site Investigation **Finished:** 19/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Grid Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O' Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: low plasticity, brown.	ES PID=2.9ppm	M	-	TOPSOIL
					CH	Silty CLAY: high plasticity, orange brown.	ES	M	-	NATURAL
			0.5			Test Pit TP87 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							



Test Pit Log

Client: ESR Australia **Started:** 19/10/2021
Project: Detailed Site Investigation **Finished:** 19/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Marker Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O' Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: low plasticity, brown.	ES PID=2.4ppm	M	-	TOPSOIL
					CH	Silty CLAY: high plasticity, orange brown.	ES	M	-	NATURAL
			0.5			Test Pit TP88 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia	Started: 19/10/2021
Project: Detailed Site Investigation	Finished: 19/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Checked:
Contractor: O' Hara Brothers	Bearing: ---

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: low plasticity, brown.	ES PID=3.7ppm	M	-	TOPSOIL
					CH	Silty CLAY: high plasticity, orange brown.		M	-	NATURAL
							ES			
			0.5			Test Pit TP89 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia **Started:** 19/10/2021
Project: Detailed Site Investigation **Finished:** 19/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Marker Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O' Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=3.8ppm	M	-	TOPSOIL
			0.5			Test Pit TP90 terminated at 0.1m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia	Started: 19/10/2021
Project: Detailed Site Investigation	Finished: 19/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Contractor: O' Hara Brothers
	Bearing: ---
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations	
Excavation			0.0		-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=4.4ppm	M	-	TOPSOIL	
			0.5			Test Pit TP91 terminated at 0.1m					
			1.0								
			1.5								
			2.0								
			2.5								
			3.0								
			3.5								

Test Pit Log

Client: ESR Australia	Started: 19/10/2021
Project: Detailed Site Investigation	Finished: 19/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Contractor: O' Hara Brothers
	Bearing: ---
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.1		-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=0.7ppm	M	-	TOPSOIL
			0.5			Test Pit TP92 terminated at 0.1m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia **Started:** 19/10/2021
Project: Detailed Site Investigation **Finished:** 19/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Marker Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O' Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=2.0ppm	M	-	TOPSOIL
			0.5			Test Pit TP93 terminated at 0.1m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

TP No: TP94
Sheet: 1 of 1
Job No: 13546

Test Pit Log

Client: ESR Australia **Started:** 19/10/2021
Project: Detailed Site Investigation **Finished:** 19/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Grid Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O' Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.5	[Symbol]	-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=1.0ppm	M	-	TOPSOIL
			1.0			Test Pit TP94 terminated at 0.1m				
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia	Started: 19/10/2021
Project: Detailed Site Investigation	Finished: 19/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Contractor: O' Hara Brothers
	Bearing: ---
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.1		-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=1.0ppm	M	-	TOPSOIL
			0.5			Test Pit TP95 terminated at 0.1m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia	Started: 20/10/2021
Project: Detailed Site Investigation	Finished: 20/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Contractor: O' Hara Brothers
	Bearing: ---
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.1		-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=3.4ppm	M	-	TOPSOIL
			0.5			Test Pit TP96 terminated at 0.1m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia	Started: 20/10/2021
Project: Detailed Site Investigation	Finished: 20/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Contractor: O' Hara Brothers
	Bearing: ---
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.1		-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=1.0ppm	M	-	TOPSOIL
			0.5			Test Pit TP97 terminated at 0.1m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia	Started: 20/10/2021
Project: Detailed Site Investigation	Finished: 20/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Checked:
Contractor: O' Hara Brothers	Bearing: ---

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.1		-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=1.6ppm	M	-	TOPSOIL
			0.5			Test Pit TP98 terminated at 0.1m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							



Test Pit Log

Client: ESR Australia	Started: 20/10/2021
Project: Detailed Site Investigation	Finished: 20/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Contractor: O' Hara Brothers
	Bearing: ---
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations	
Excavation			0.1		-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=3.1ppm	M	-	TOPSOIL	
			0.5			Test Pit TP99 terminated at 0.1m					
			1.0								
			1.5								
			2.0								
			2.5								
			3.0								
			3.5								

Test Pit Log

Client: ESR Australia	Started: 20/10/2021
Project: Detailed Site Investigation	Finished: 20/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Hole Coordinates: E, N
RL Surface: m	Contractor: O' Hara Brothers
Driller:	Logged: SJ
Bearing: ---	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	PID=1.2ppm	M	-	TOPSOIL
					CI-CH	Silty CLAY: medium to high plasticity, light brown with grey mottle.	ES	-	-	NATURAL
			0.5			Test Pit TP100 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia **Started:** 20/10/2021
Project: Detailed Site Investigation **Finished:** 20/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Marker Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O' Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.0		-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=1.9ppm	M	-	TOPSOIL
			0.5		CH	Silty CLAY: high plasticity, light brown with grey mottling.		M	-	NATURAL
			1.0		CL	Sandy Gravelly CLAY: low plasticity, light brown/grey.	ES	M	-	
			1.2			Rock Refusal Test Pit TP101 terminated at 1.2m				



Test Pit Log

Client: ESR Australia	Started: 20/10/2021
Project: Detailed Site Investigation	Finished: 20/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Checked:
Contractor: O' Hara Brothers	Bearing: ---

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation				[Symbol]	-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=1.5ppm	M	-	TOPSOIL
				[Symbol]	CH	Silty CLAY: high plasticity, light brown.	ES	M	-	NATURAL
			0.5							
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							
						Test Pit TP102 terminated at 1.2m				

Test Pit Log

Client: ESR Australia	Started: 20/10/2021
Project: Detailed Site Investigation	Finished: 20/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Checked:
Contractor: O' Hara Brothers	Bearing: ---

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=1.0ppm	M	-	TOPSOIL
					CH	Silty CLAY: high plasticity, orange brown.	ES	M	-	NATURAL
			0.5							
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							
						Test Pit TP103 terminated at 1.2m				

Test Pit Log

Client: ESR Australia **Started:** 20/10/2021
Project: Detailed Site Investigation **Finished:** 20/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Marker Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O' Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=1.7ppm	M	-	TOPSOIL
					CH	Silty CLAY: high plasticity, light brown with grey mottling.	ES	M	-	NATURAL
			0.5							
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							
						Test Pit TP104 terminated at 1.2m				

Test Pit Log

Client: ESR Australia	Started: 20/10/2021
Project: Detailed Site Investigation	Finished: 20/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Checked:
Contractor: O' Hara Brothers	Bearing: ---

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=1.8ppm	M	-	TOPSOIL
					CH	Silty CLAY: high plasticity, light brown with grey mottling.	ES	M	-	NATURAL
			0.5							
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							
						Test Pit TP105 terminated at 1.2m				

Test Pit Log

Client: ESR Australia	Started: 20/10/2021
Project: Detailed Site Investigation	Finished: 20/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Checked:
Contractor: O' Hara Brothers	Bearing: ---

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=4.2ppm	M	-	TOPSOIL
					CH	Silty CLAY: high plasticity, light brown with grey mottling.	ES	M	-	NATURAL
			0.5							
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							
Test Pit TP106 terminated at 1.2m										



Test Pit Log

Client: ESR Australia	Started: 20/10/2021
Project: Detailed Site Investigation	Finished: 20/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Contractor: O' Hara Brothers
	Bearing: ---
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation				[Symbol]	-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=2.7ppm	M	-	TOPSOIL
				[Symbol]	CH	Silty CLAY: high plasticity, light brown with grey mottling.	ES	M	-	NATURAL
			0.5							
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							
						Test Pit TP107 terminated at 1.2m				

Test Pit Log

Client: ESR Australia **Started:** 20/10/2021
Project: Detailed Site Investigation **Finished:** 20/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Marker Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O'Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=2.2ppm	M	-	TOPSOIL 13.3kg
					CI-CH	Silty CLAY: medium to high plasticity, brown.		M	-	NATURAL
							ES			
			0.5			Test Pit TP108 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia					Started: 20/10/2021					
Project: Detailed Site Investigation					Finished: 20/10/2021					
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW					Test Pit Size: m					
Rig Type: 5t Hydraulic Track Mounted Excavator					Grid Coordinates: E, N		Driller:		Logged: SJ	
RL Surface: m		Contractor: O'Hara Brothers			Bearing: ---		Checked:			
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=1.7ppm	M	-	TOPSOIL 13.0kg
					CI-CH	Silty CLAY: medium to high plasticity, orangey brown.		M	-	NATURAL
							ES			
			0.5			Test Pit TP109 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							



Test Pit Log

Client: ESR Australia **Started:** 20/10/2021
Project: Detailed Site Investigation **Finished:** 20/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Marker Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O'Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=3.8ppm	M	-	TOPSOIL 12.5kg
					CI-CH	Silty CLAY: medium to high plasticity, orangey brown.	ES	M	-	NATURAL
			0.5			Test Pit TP110 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia	Started: 20/10/2021
Project: Detailed Site Investigation	Finished: 20/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Hole Coordinates: E, N
RL Surface: m	Driller: ---
Contractor: O'Hara Brothers	Logged: SJ
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=2.0ppm	M	-	TOPSOIL 12.3kg
					CI-CH	Silty CLAY: medium to high plasticity, orangey brown.		M	-	NATURAL
							ES			
			0.5			Test Pit TP111 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							



Test Pit Log

Client: ESR Australia **Started:** 20/10/2021
Project: Detailed Site Investigation **Finished:** 20/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Marker Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O'Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=1.1ppm	M	-	TOPSOIL 12.6kg
					CI-CH	Silty CLAY: medium to high plasticity, orangey brown.	ES	M	-	NATURAL
			0.5			Test Pit TP112 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia	Started: 20/10/2021
Project: Detailed Site Investigation	Finished: 20/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Contractor: O'Hara Brothers
	Bearing: ---
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=1.2ppm	M	-	TOPSOIL 12.1kg
					CI-CH	Silty CLAY: medium to high plasticity, light grey/brown.		M	-	NATURAL
							ES			
			0.5			Test Pit TP113 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log



Client: ESR Australia **Started:** 20/10/2021
Project: Detailed Site Investigation **Finished:** 20/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Marker Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O'Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=1.2ppm	M	-	TOPSOIL 12.9kg
					CI-CH	Silty CLAY: medium to high plasticity, light grey/brown.	ES	M	-	NATURAL
			0.5			Test Pit TP114 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

TP No: TP115
Sheet: 1 of 1
Job No: 13546



Test Pit Log

Client: ESR Australia **Started:** 20/10/2021
Project: Detailed Site Investigation **Finished:** 20/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Marker Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O'Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=2.4ppm	M	-	TOPSOIL 13.2kg
					CI-CH	Silty CLAY: medium to high plasticity, orangey brown.		M	-	NATURAL
							ES			
			0.5			Test Pit TP115 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia	Started: 20/10/2021
Project: Detailed Site Investigation	Finished: 20/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Checked:
Contractor: O'Hara Brothers	Bearing: ---

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=1.3ppm	M	-	TOPSOIL 13.5kg
					CI-CH	Silty CLAY: medium to high plasticity, orangey brown.		M	-	NATURAL
							ES			
			0.5			Test Pit TP116 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia	Started: 20/10/2021
Project: Detailed Site Investigation	Finished: 20/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Contractor: O'Hara Brothers
	Bearing: ---
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation				[Dotted Pattern]	-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=3.8ppm	M	-	TOPSOIL 12.4kg
				[Diagonal Lines]	CI-CH	Silty CLAY: medium to high plasticity, orangey brown.	ES	M	-	NATURAL
			0.5			Test Pit TP117 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia **Started:** 20/10/2021
Project: Detailed Site Investigation **Finished:** 20/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Marker Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O'Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=1.5ppm	M	-	TOPSOIL 12.1kg
					CI-CH	Silty CLAY: medium to high plasticity, orangey brown.	ES	M	-	NATURAL
			0.5			Test Pit TP118 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia **Started:** 20/10/2021
Project: Detailed Site Investigation **Finished:** 20/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Marker Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O'Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=1.6ppm	M	-	TOPSOIL 13.4kg
					CI-CH	Silty CLAY: medium to high plasticity, orangey brown.	ES	M	-	NATURAL
			0.5			Test Pit TP119 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia **Started:** 20/10/2021
Project: Detailed Site Investigation **Finished:** 20/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Hole Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O'Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.0		-	FILL: Silty CLAY: high plasticity, brown, with minor gravels.	ES PID=1.8ppm	M	-	FILL 14.7kg
			0.5		CI-CH	Silty CLAY: medium to high plasticity, grey with orange mottle.		M	-	NATURAL
			1.0		-	Clayey SHALE: grey.		-	-	
			1.5				ES			
			2.0				ES			
			2.5				ES			
			3.0			Test Pit TP120 terminated at 2.6m				
			3.5							

Test Pit Log

Client: ESR Australia	Started: 20/10/2021
Project: Detailed Site Investigation	Finished: 20/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Contractor: O'Hara Brothers
	Bearing: ---
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation				[Dotted Pattern]	-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=1.4ppm	M	-	TOPSOIL 13.0kg
				[Diagonal Lines]	CI-CH	Silty CLAY: medium to high plasticity, orangey brown.		M	-	NATURAL
							ES			
			0.5			Test Pit TP121 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia **Started:** 20/10/2021
Project: Detailed Site Investigation **Finished:** 20/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Marker Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O'Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Sandy CLAY: low plasticity, brown, with minor gravels.	ES PID=0.8ppm	SM	-	TOPSOIL 13.6kg
					CL	Silty CLAY: low plasticity, brown.	ES	SM	-	NATURAL
			0.5			Test Pit TP122 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							



Test Pit Log

Client: ESR Australia	Started: 20/10/2021
Project: Detailed Site Investigation	Finished: 20/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Hole Coordinates: E, N
RL Surface: m	Driller: ---
Contractor: O'Hara Brothers	Logged: SJ
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation				[Dotted Pattern]	-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=3.0ppm	M	-	TOPSOIL 13.2kg
				[Diagonal Lines]	CI-CH	Silty CLAY: medium to high plasticity, orangey brown.		M	-	NATURAL
							ES			
			0.5			Test Pit TP123 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia **Started:** 20/10/2021
Project: Detailed Site Investigation **Finished:** 20/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Marker Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O'Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=4.1ppm	M	-	TOPSOIL 12.9kg
					CI-CH	Silty CLAY: medium to high plasticity, orangey brown.	ES	M	-	NATURAL
			0.5			Test Pit TP124 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia	Started: 20/10/2021
Project: Detailed Site Investigation	Finished: 20/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Hole Coordinates: E, N
RL Surface: m	Driller: ---
Contractor: O'Hara Brothers	Logged: SJ
	Bearing: ---
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation				[Dotted Pattern]	-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=2.2ppm	M	-	TOPSOIL 13.6kg
				[Diagonal Lines]	CI-CH	Silty CLAY: medium to high plasticity, orangey brown.	ES	M	-	NATURAL
			0.5			Test Pit TP125 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							



Test Pit Log

Client: ESR Australia	Started: 20/10/2021
Project: Detailed Site Investigation	Finished: 20/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Hole Coordinates: E, N
RL Surface: m	Contractor: O'Hara Brothers
Driller:	Logged: SJ
Bearing: ---	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation				[Symbol]	-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=1.1ppm	M	-	TOPSOIL 12.1kg
				[Symbol]	CI-CH	Silty CLAY: medium to high plasticity, orangey brown.		M	-	NATURAL
							ES			
			0.5			Test Pit TP126 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log



Client: ESR Australia **Started:** 21/10/2021
Project: Detailed Site Investigation **Finished:** 21/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Marker Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O'Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: low plasticity, dark brown.	ES PID=2.6ppm	SM	-	TOPSOIL 13.8kg
					CL	Silty CLAY: low plasticity, brown.	ES	SM	-	NATURAL
			0.5			Test Pit TP127 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

TP No: TP128
Sheet: 1 of 1
Job No: 13546

Test Pit Log

Client: ESR Australia	Started: 21/10/2021
Project: Detailed Site Investigation	Finished: 21/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Contractor: O'Hara Brothers
	Bearing: ---
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: low plasticity, dark brown.	ES PID=2.8ppm	SM	-	TOPSOIL 13.5kg
					CL	Silty CLAY: low plasticity, brown.	ES	SM	-	NATURAL
			0.5			Test Pit TP128 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia	Started: 21/10/2021
Project: Detailed Site Investigation	Finished: 21/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cliffe NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Contractor: O'Hara Brothers
	Bearing: ---
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: low plasticity, dark brown.	ES PID=3.4ppm	SM	-	TOPSOIL 12.9kg
					CL	Silty CLAY: low plasticity, brown.	ES	SM	-	NATURAL
			0.5			Test Pit TP129 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia **Started:** 21/10/2021
Project: Detailed Site Investigation **Finished:** 21/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Hole Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O'Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.0		-	TOPSOIL: Silty CLAY: low plasticity, dark brown.	ES PID=1.8ppm	SM	-	FILL 12.2kg
			0.5		CL	Silty CLAY: low plasticity, dark brown.		SM	-	NATURAL
			1.0		-	Silty Gravelly SHALE: light brown to grey.	ES	-	-	
			1.5		-	Silty SHALE: grey.	ES	-	-	
			2.0			Hard Refusal Test Pit TP130 terminated at 2.1m	ES			
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia **Started:** 21/10/2021
Project: Detailed Site Investigation **Finished:** 21/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O'Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=1.5ppm	M	-	FILL 13.0kg
					CI-CH	Silty CLAY: medium to high plasticity, brown.		M	-	NATURAL
							ES			
			0.5			Test Pit TP131 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia **Started:** 21/10/2021
Project: Detailed Site Investigation **Finished:** 21/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Marker Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O'Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=4.0ppm	M	-	FILL 12.4kg
					CI-CH	Silty CLAY: medium to high plasticity, brown.		M	-	NATURAL
							ES			
			0.5			Test Pit TP132 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia **Started:** 21/10/2021
Project: Detailed Site Investigation **Finished:** 21/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Marker Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O'Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=1.4ppm	M	-	FILL 12.0kg
					CI-CH	Silty CLAY: medium to high plasticity, brown.		M	-	NATURAL
							ES			
			0.5			Test Pit TP133 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							



Test Pit Log

Client: ESR Australia **Started:** 21/10/2021
Project: Detailed Site Investigation **Finished:** 21/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Marker Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O'Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=2.2ppm	M	-	FILL 13.3kg
					CI-CH	Silty CLAY: medium to high plasticity, brown.		M	-	NATURAL
							ES			
			0.5			Test Pit TP134 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							



Test Pit Log

Client: ESR Australia **Started:** 21/10/2021
Project: Detailed Site Investigation **Finished:** 21/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Marker Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O'Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=1.8ppm	M	-	FILL 12.8kg
					CI-CH	Silty CLAY: medium to high plasticity, brown.		M	-	NATURAL
							ES			
			0.5			Test Pit TP135 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia	Started: 21/10/2021
Project: Detailed Site Investigation	Finished: 21/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Contractor: O'Hara Brothers
	Bearing: ---
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=1.7ppm	M	-	FILL 13.6kg
					CI-CH	Silty CLAY: medium to high plasticity, brown.		M	-	NATURAL
							ES			
			0.5			Test Pit TP136 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia	Started: 21/10/2021
Project: Detailed Site Investigation	Finished: 21/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Male Coordinates: E, N	Logged: SJ
RL Surface: m	Contractor: O'Hara Brothers
	Bearing: ---
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation				0.0	-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=2.5ppm	M	-	TOPSOIL 13.0kg
				0.5	CH	Silty CLAY: high plasticity, orangey brown.		M	-	NATURAL
				1.0			ES			
				1.5			ES			
				2.0			ES			
			2.5		CI	Silty CLAY: medium plasticity, grey.		M	-	
			3.0				ES			
			3.5			Test Pit TP137 terminated at 2.6m				

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Test Pit Log

Client: ESR Australia **Started:** 21/10/2021
Project: Detailed Site Investigation **Finished:** 21/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Grid Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O'Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=5.8ppm	M	-	TOPSOIL 13.1kg
					CH	Silty CLAY: high plasticity, orangey brown.	ES	M	-	NATURAL
			0.5							
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5			Test Pit TP138 terminated at 2.6m				

Test Pit Log

Client: ESR Australia **Started:** 21/10/2021
Project: Detailed Site Investigation **Finished:** 21/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Hole Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O'Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES PID=3.6ppm	M	-	TOPSOIL 14.2kg
					CH	Silty CLAY: high plasticity, orangey brown.	ES	M	-	NATURAL
			0.5							
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5			Test Pit TP139 terminated at 2.6m				

Test Pit Log

Client: ESR Australia	Started: 18/10/2021
Project: Detailed Site Investigation	Finished: 18/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Hole Coordinates: E, N
RL Surface: m	Driller: ---
Contractor: O'Hara Brothers	Logged: SJ
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.5		-	FILL: Sandy Gravelly CLAY: low plasticity, brown.	ES PID=3.2ppm	M	-	FILL 13.6kg
			1.0		-	FILL: Gravelly CLAY: high plasticity, grey/brown with heavy black staining, geo fabric+brick throughout, mild odour.	ES PID=2.5ppm	W	-	FILL 17.2kg
			1.5		CI-CH	CLAY: medium to high plasticity, orangey brown, with fine gravels.	ES	M	-	NATURAL
			2.0			Test Pit TP141 terminated at 1.6m				
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia **Started:** 18/10/2021
Project: Detailed Site Investigation **Finished:** 18/10/2021
Location: 290-308 Aldington Road & 59-63 Abbotts Road, Homebush NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Male Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O'Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.5		-	FILL: Sandy Gravelly CLAY: low plasticity, brown.	ES PID=3.9ppm	M	-	FILL 13.1kg
			1.0		-	FILL: Gravelly CLAY: high plasticity, black, geo fabric+brick throughout, mild odour.	ES PID=2.9ppm	W	-	FILL 17.0kg
			1.5		CI-CH	CLAY: medium to high plasticity, orangey brown, with fine gravels.	ES	M	-	NATURAL
			2.0			Test Pit TP142 terminated at 1.6m				
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia	Started: 15/10/2021
Project: Detailed Site Investigation	Finished: 15/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Checked:
Contractor: O' Hara Brothers	Bearing: ---

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.5 1.0 1.5 2.0 2.5 3.0 3.5	/ /	CH	Silty CLAY: high plasticity, dark grey. Test Pit ASB10 terminated at 0.1m	ES	W	-	Filled with water


Test Pit Log

Client: ESR Australia	Started: 15/10/2021
Project: Detailed Site Investigation	Finished: 15/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Hole Coordinates: E, N
RL Surface: m	Contractor: O' Hara Brothers
Driller:	Logged: SJ
Bearing: ---	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.5	XXXX	-	FILL: Silty Gravelly CLAY: high plasticity, brown.	ES	M	-	FILL
Excavation			1.0			NATURAL Test Pit ASB11 terminated at 0.1m				
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							



Test Pit Log

Client: ESR Australia **Started:** 15/10/2021
Project: Detailed Site Investigation **Finished:** 15/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Hole Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O' Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.5		-	FILL: Gravelly Silty CLAY: medium to high plasticity, brown.	ES	M	-	FILL heavy PACM, construction waste, and tyres
			1.0			1.0m, with orange mottling.	ES	W		
			1.5				ES			
			2.0			Due to water filling hole Test Pit ASB12 terminated at 2m				
			2.5							
			3.0							
			3.5							

Test Pit Log


Client: ESR Australia				Started: 15/10/2021			
Project: Detailed Site Investigation				Finished: 15/10/2021			
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW				Test Pit Size: m			
Rig Type: 5t Hydraulic Track Mounted Excavator				Driller:		Logged: SJ	
RL Surface: m				Bearing: ---		Checked:	
Grid Coordinates E, N							
Contractor: O' Hara Brothers							

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.5		CI	FILL: Silty CLAY: medium plasticity, dark brown.	ES	M	-	FILL
			1.0		CI	Silty CLAY: medium plasticity, dark brown.				NATURAL
			1.5			Test Pit ASB13 terminated at 1.5m				
			2.0							
			2.5							
			3.0							
			3.5							

TP No: ASB14
Sheet: 1 of 1
Job No: 13546

Test Pit Log

Client: ESR Australia	Started: 15/10/2021
Project: Detailed Site Investigation	Finished: 15/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Checked:
Contractor: O' Hara Brothers	Bearing: ---

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.5		CI	TOPSOIL: Silty CLAY: medium plasticity, dark brown.	ES	M	-	NATURAL
			1.0			NATURAL Test Pit ASB14 terminated at 0.1m				
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia	Started: 15/10/2021
Project: Detailed Site Investigation	Finished: 15/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Checked:
Contractor: O' Hara Brothers	Bearing: ---

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations	
Excavation				0.5	CI	Silty CLAY: medium plasticity, dark brown.	ES	M	-	NATURAL	
				1.0	CH	Silty CLAY: high plasticity, dark brown.			M		-
				1.5			ES				
				2.0		2.0m, with orange mottling.	ES				
			2.5			Test Pit ASB15 terminated at 2.5m					
			3.0								
			3.5								

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

Test Pit Log

Client: ESR Australia **Started:** 06/10/2021
Project: Detailed Site Investigation **Finished:** 06/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Male Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O' Hara Brothers **Bearing:** --- **Checked:**









Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	Gravelly SAND: fine to coarse grained, sub-angular, well graded, brown, with cobbles.	ES PID=1.6ppm	M	-	Concrete gravels
			0.5		-	FILL: CLAY: high plasticity, brown, with fine gravel.	ES PID=1.4ppm	M	-	FILL
			1.0		CH	CLAY: high plasticity, brown/beige with orange mottling.	ES PID=0.7ppm	M	-	NATURAL
			1.5			Test Pit DR01 terminated at 1m				
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia				Started: 06/10/2021						
Project: Detailed Site Investigation				Finished: 06/10/2021						
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW				Test Pit Size: m						
Rig Type: 5t Hydraulic Track Mounted Excavator		Male Coordinates: E, N		Driller:		Logged: SJ				
RL Surface: m		Contractor: O' Hara Brothers		Bearing: ---		Checked:				
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	Gravelly SAND: fine to coarse grained, sub-angular, well graded, light brown, with cobbles.	ES PID=0.3ppm	M	-	Concrete gravels
					-	FILL: Silty CLAY: low plasticity, dark brown, with fine gravel.	ES	SM	-	FILL
			0.5		CL-CI	CLAY: low to medium plasticity, light brown/beige, with orange and grey mottling.	ES PID=0.3ppm	M	-	NATURAL
			1.0			Test Pit DR02 terminated at 1m				
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia **Started:** 06/10/2021
Project: Detailed Site Investigation **Finished:** 06/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Hole Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O' Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.0		-	Gravelly SAND: fine to coarse grained, sub-angular, well graded, light brown, with cobbles.	ES PID=0.3ppm	M	-	FILL Concrete gravels
			0.5		-	FILL: Sandy CLAY: low to medium plasticity, brown, with fine gravel.	ES PID=0.4ppm	M	-	
			1.0		CH	CLAY: high plasticity, light orange/red.	ES PID=0.3ppm	M	-	NATURAL
			1.5		CH	CLAY: high plasticity, light brown with orange and grey mottling.	ES	M	-	
			2.0			Test Pit DR03 terminated at 2m				
			2.5							
			3.0							
			3.5							



Test Pit Log

Client: ESR Australia	Started: 07/10/2021
Project: Detailed Site Investigation	Finished: 07/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Checked:
Contractor: O' Hara Brothers	Bearing: ---

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	FILL: Silty Gravelly SAND: fine to coarse grained, sub-angular, well graded, brown.	ES PID=3.4ppm	D	-	FILL
					-	SHALE: grey.	ES	D	-	BEDROCK
			0.5			Refusal Test Pit DR04 terminated at 0.2m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							



Test Pit Log

Client: ESR Australia	Started: 07/10/2021
Project: Detailed Site Investigation	Finished: 07/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Contractor: O' Hara Brothers
	Bearing: ---
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	FILL: Silty Gravelly SAND: fine to coarse grained, sub-angular, well graded, brown.	ES PID=3.1ppm	D	-	FILL
					CL	CLAY: low plasticity, brown with orange mottling.	ES PID=4.2ppm	SM	-	NATURAL
			0.5			Test Pit DR05 terminated at 0.4m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							



Test Pit Log

Client: ESR Australia **Started:** 07/10/2021
Project: Detailed Site Investigation **Finished:** 07/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O' Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	FILL: Silty Gravelly SAND: fine to coarse grained, sub-angular, well graded, brown.	ES PID=5.2ppm	M	-	FILL
					CH	CLAY: high plasticity, brown/beige, with fine gravel.	ES PID=6.5ppm	M	-	NATURAL
			0.5			Test Pit DR06 terminated at 0.5m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia	Started: 07/10/2021
Project: Detailed Site Investigation	Finished: 07/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Checked:
Contractor: O' Hara Brothers	Bearing: ---

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.5		-	FILL: Gravelly SANDSTONE: coarse grained, sub-angular, light brown/beige.	ES PID=2.3ppm	SM	-	FILL
			0.5		CH	CLAY: high plasticity, brown/beige, with fine gravel.	ES PID=5.4ppm	M	-	NATURAL
			0.5			Test Pit DR07 terminated at 0.5m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia **Started:** 07/10/2021
Project: Detailed Site Investigation **Finished:** 07/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Hole Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O' Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	FILL: Silty Gravelly SAND: fine to coarse grained, sub-angular, well graded, brown.	ES PID=4.0ppm	SM	-	FILL
					CI	CLAY: medium plasticity, light brown/orange.	ES PID=4.0ppm	SM	-	NATURAL
			0.5			Test Pit DR08 terminated at 0.2m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia	Started: 13/10/2021
Project: Detailed Site Investigation	Finished: 13/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Contractor: O' Hara Brothers
	Bearing: ---
	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation				[Cross-hatch pattern]	-	FILL: Gravelly CLAY: high plasticity, grey.	ES PID=5.9ppm	M	-	FILL
				[Diagonal lines]	CI-CH	CLAY: medium to high plasticity, orange brown.	ES	M	-	NATURAL
			0.5			Test Pit DR11 terminated at 0.2m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia	Started: 13/10/2021
Project: Detailed Site Investigation	Finished: 13/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Hole Coordinates: E, N
RL Surface: m	Contractor: O' Hara Brothers
Driller:	Logged: SJ
Bearing: ---	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation				[Cross-hatch pattern]	-	FILL: Gravelly CLAY: high plasticity, grey.	ES PID=2.1ppm	M	-	FILL
				[Diagonal lines pattern]	CI-CH	CLAY: medium to high plasticity, orange brown.	ES	M	-	NATURAL
			0.5			Test Pit DR12 terminated at 0.2m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							



Test Pit Log

Client: ESR Australia	Started: 13/10/2021
Project: Detailed Site Investigation	Finished: 13/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Checked:
Contractor: O' Hara Brothers	Bearing: ---

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	FILL: Silty Gravelly CLAY: medium to high plasticity, dark brown.	ES PID=3.2ppm	M	-	FILL
					CI-CH	CLAY: medium to high plasticity, orange brown.	ES	M	-	NATURAL
			0.5			Test Pit DR13 terminated at 0.2m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia	Started: 13/10/2021
Project: Detailed Site Investigation	Finished: 13/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Hole Coordinates: E, N
RL Surface: m	Contractor: O' Hara Brothers
Driller:	Logged: SJ
Bearing: ---	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	FILL: Gravelly CLAY: high plasticity, dark brown.	ES PID=6.6ppm	M	-	FILL
					CH	Silty CLAY: high plasticity, brown, with fine gravel.	ES	M	-	NATURAL
			0.5			Test Pit DR14 terminated at 0.2m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

TP No: DR15
Sheet: 1 of 1
Job No: 13546

Test Pit Log

Client: ESR Australia **Started:** 18/10/2021
Project: Detailed Site Investigation **Finished:** 18/10/2021
Location: 290-308 Aldington Road & 59-63 Abbotts Road, Kings Cross NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Map Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O' Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations	
Excavation				[Cross-hatch pattern]	-	FILL: Silty Gravelly CLAY: low to medium plasticity, brown.	ES PID=1.4ppm	M	-	FILL	
			0.5	[Diagonal lines]	CI	Silty CLAY: medium plasticity, brown/grey with orange mottling.	ES	M	-	NATURAL	
			1.0			Test Pit DR15 terminated at 0.5m					
			1.5								
			2.0								
			2.5								
			3.0								
			3.5								


Test Pit Log

Client: ESR Australia **Started:** 19/10/2021
Project: Detailed Site Investigation **Finished:** 19/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Hurlingham NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O' Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.5		-	FILL: Silty Gravelly SAND: fine to coarse grained, sub-angular, light brown, well-graded, full of concrete and bricks.	ES PID=2.8ppm	SM	-	FILL
			1.0		-	FILL: Silty CLAY: medium plasticity, dark grey.		M	-	
			1.5				ES PID=2.6ppm			
			2.0		CI-CH	Silty CLAY: medium to high plasticity, light brown with grey mottling.		M	-	NATURAL Water falling from 2.0m
			2.5			Test Pit DR16 terminated at 2m				
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia **Started:** 19/10/2021
Project: Detailed Site Investigation **Finished:** 19/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Hole Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O' Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations	
Excavation			0.5		-	FILL: Silty Gravelly SAND: fine to coarse grained, sub-angular, light brown, well-graded, full of concrete and bricks.	ES PID=2.3ppm	SM	-	FILL	
			1.0		CH		CLAY: high plasticity, light brown with orange, red mottling.	PID=1.6ppm	M		-
			1.5			Test Pit DR17 terminated at 1.2m					
			2.0								
			2.5								
			3.0								
			3.5								

Test Pit Log

Client: ESR Australia	Started: 18/10/2021
Project: Detailed Site Investigation	Finished: 18/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Checked:
Contractor: O' Hara Brothers	Bearing: ---

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.5		-	FILL: Silty Gravelly CLAY: low to medium plasticity, brown.		M	-	FILL Surface Grab
			1.0			Test Pit PP1 terminated at 0.1m				
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia	Started: 13/10/2021
Project: Detailed Site Investigation	Finished: 13/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Checked:
Contractor: O' Hara Brothers	Bearing: ---

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.5	/ /	CL-CI	Silty CLAY: low to medium plasticity, brown.		M	-	
			1.0			Test Pit PP2 terminated at 0.1m				
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia	Started: 13/10/2021
Project: Detailed Site Investigation	Finished: 13/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Checked:
Contractor: O' Hara Brothers	Bearing: ---

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.5	/ /	CL-CI	Silty CLAY: low to medium plasticity, brown.		M	-	
			1.0			Test Pit PP3 terminated at 0.1m				
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia	Started: 12/10/2021
Project: Detailed Site Investigation	Finished: 12/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Checked:
Contractor: O' Hara Brothers	Bearing: ---

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.0		-	TOPSOIL: Sandy Gravelly CLAY: low plasticity, brown.	ES PID=1.7ppm	M	-	TOPSOIL
			0.5		CI	CLAY: medium plasticity, light brown.	ES	M	-	NATURAL
			1.0		CI	CLAY: medium plasticity, grey.	ES	M	-	
			1.5		CL	Shaly CLAY: low plasticity, grey.	ES	M	-	
			2.0				ES			
			2.5			Refusal Test Pit PP4 terminated at 2.1m				
			3.0							
			3.5							

1. NON CORED BOREHOLE 13546.GPJ GINT STD AUSTRALIA.GDT 30/11/21

TP No: PP5
Sheet: 1 of 1
Job No: 13546


Test Pit Log

Client: ESR Australia	Started: 13/10/2021
Project: Detailed Site Investigation	Finished: 13/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Checked:
Contractor: O' Hara Brothers	Bearing: ---

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.5	/ /	CL-CI	Silty CLAY: low to medium plasticity, brown.		M	-	
			1.0			Test Pit PP5 terminated at 0.1m				
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

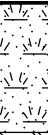

Test Pit Log

Client: ESR Australia **Started:** 12/10/2021
Project: Detailed Site Investigation **Finished:** 12/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Hole Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O' Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	FILL: Clayey SAND: fine to coarse grained, sub-rounded, well graded, brown, with minor gravel.	ES PID=1.8ppm	M	-	FILL
			0.5		-	Gravelly Sandy CLAY: low plasticity, brown.	ES PID=1.2ppm	M	-	
			1.0				ES PID=2.0ppm			
			1.5				ES			
			2.0				ES			
			2.5			CL-CI	CLAY: low to medium plasticity, light brown with orange and grey mottling.	ES PID=3.3ppm	SM	
			3.0							
			3.5			Test Pit PP6 terminated at 2.5m				


Test Pit Log

Client: ESR Australia	Started: 12/10/2021
Project: Detailed Site Investigation	Finished: 12/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Hole Coordinates: E, N
RL Surface: m	Contractor: O' Hara Brothers
Driller:	Logged: SJ
Bearing: ---	Checked:

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.5		-	TOPSOIL: Silty CLAY: medium to high plasticity, dark brown.	ES PID=2.3ppm	M	-	TOPSOIL
			0.5		CH	CLAY: high plasticity, light brown with orange and gey mottling.	ES PID=0.8ppm	M	-	NATURAL
			0.5			Test Pit PP7 terminated at 0.5m				
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia **Started:** 12/10/2021
Project: Detailed Site Investigation **Finished:** 12/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Hole Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O' Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation					-	TOPSOIL: Silty CLAY: medium to high plasticity, dark brown.	ES PID=2.0ppm	M	-	TOPSOIL
					CI-CH	Shaly CLAY: low to medium plasticity, grey to dark grey.	ES	M	-	NATURAL
						Test Pit PP8 terminated at 0.2m				
			0.5							
			1.0							
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

Test Pit Log

Client: ESR Australia	Started: 18/10/2021
Project: Detailed Site Investigation	Finished: 18/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Checked:
Contractor: O' Hara Brothers	Bearing: ---

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.5	/ /	CL-CI	Gravelly CLAY: low to medium plasticity, brown.		M		Surface Grab
			1.0			Test Pit PP9 terminated at 0.1m				
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

TP No: PP10
Sheet: 1 of 1
Job No: 13546

Test Pit Log

Client: ESR Australia **Started:** 18/10/2021
Project: Detailed Site Investigation **Finished:** 18/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Grid Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O' Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.5	/ /	CI	Silty CLAY: medium plasticity, brown.		M	-	Surface Grab
			1.0			Test Pit PP10 terminated at 0.1m				
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

TP No: PP11
Sheet: 1 of 1
Job No: 13546

Test Pit Log

Client: ESR Australia	Started: 18/10/2021
Project: Detailed Site Investigation	Finished: 18/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Kings Cross NSW	Test Pit Size: m
Rig Type: 5t Hydraulic Track Mounted Excavator	Driller:
Grid Coordinates: E, N	Logged: SJ
RL Surface: m	Checked:
Contractor: O' Hara Brothers	Bearing: ---

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.5	/ /	CI	Silty CLAY: medium plasticity, brown.		M	-	Surface Grab
			1.0			Test Pit PP11 terminated at 0.1m				
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

TP No: PP12
Sheet: 1 of 1
Job No: 13546

Test Pit Log

Client: ESR Australia **Started:** 18/10/2021
Project: Detailed Site Investigation **Finished:** 18/10/2021
Location: 290-308 Aldington Road & 59-63 Abbots Road, Homebush NSW **Test Pit Size:** m
Rig Type: 5t Hydraulic Track Mounted Excavator **Grid Coordinates:** E, N **Driller:** **Logged:** SJ
RL Surface: m **Contractor:** O' Hara Brothers **Bearing:** --- **Checked:**

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Samples Tests Remarks	Moisture Condition	Consistency/Density Index	Additional Observations
Excavation			0.5	/ /	CI	Silty CLAY: medium plasticity, brown.		M	-	Surface Grab
			1.0			Test Pit PP12 terminated at 0.1m				
			1.5							
			2.0							
			2.5							
			3.0							
			3.5							

APPENDIX B
LABORATORY ANALYTICAL DOCUMENTATION

CHAIN OF CUSTODY RECORD

Perth Laboratory
Unit 2, 81 Leach Highway, Kewdale, WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

Brisbane Laboratory
Unit 1, 21 Smallwood Pl., Murarie, QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Melbourne Laboratory
2 Kingston Town Ckcs, Oakleigh, VIC 3166
03 8564 5000 EnviroSampleVIC@eurofins.com

Perth Laboratory
Unit 2, 81 Leach Highway, Kewdale, WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

Brisbane Laboratory
Unit 1, 21 Smallwood Pl., Murarie, QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Melbourne Laboratory
2 Kingston Town Ckcs, Oakleigh, VIC 3166
03 8564 5000 EnviroSampleVIC@eurofins.com

Company		Project No		Project Manager		Sampler(s)	
ALLIANCE GEOTECHNICAL		13546		Jacob W		SJ	
Address		Project Name		Handed over by			
10 WELDER ROAD, SEVEN HILLS NSW		Kemps Creek					
Contact Name		Analyses		Email for Invoice			
Sam J		Suite B7: TRH, BTEXN, PAH, Metals		admin@allgeo.com.au			
Phone No		Matrix (Solid (S) Water (W))		Email for Results			
430214402		S		samjones@allgeo.com.au, enviro@allgeo.com.au, & jacob.walker@allgeo.com.au			
Special Directions		Sampled Date/Time (dd/mm/yyyy hh:mm)		Turnaround Time (TAT) Requirements (submit will be 5 days if not ticked)			
		Client Sample ID		Overnight (9am)*			
		TP01 0.0-0.2		1 Day*			
		TP02 0.4-0.6		3 Day*			
		TP03 0.0-0.2		Other ()			
		TP04 0.4-0.6		Jar (Glass or HDPE)			
		TP05 0.0-0.1		500mL PFAS Bottle			
		TP06 0.0-0.2		40mL VOA vial			
		TP06 0.8-1.0		200mL Amber Glass			
		TP06 1.0-1.2		125mL Plastic			
		TP06 1.2-1.4		250mL Plastic			
		TP07 0.0-0.2		1L Plastic			
		TP07 0.5-0.7					
		TP08 0.0-0.2					
		TP08 0.4-0.6					
		TP09 0.0-0.2					
		TP09 0.4-0.6					
		TP10 0.0-0.2					
		TP10 0.3-0.4					
		TP11 0.0-0.1					
		TP12 0.0-0.1					
		TP14 0.0-0.2					
Quote ID No		Total Counts		Signature		Date	
		13 7 5 5 9		[Signature]		8/10/2021	
Method of Shipment		Signature		Signature		Temperature	
<input checked="" type="checkbox"/> Courier (#) <input type="checkbox"/> Hand Delivered		[Signature]		[Signature]		16.8°C	
Eurofins mgt Laboratory Use Only		Signature		Signature		Report No	
[Signature]		[Signature]		[Signature]		833263	

CHAIN OF CUSTODY RECORD
AGN 50 005 085 321

Sydney Laboratory
Unit F3 Bld F, 16 Mars Fld, Lane Cove West, NSW 2086
02 9500 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory
Unit 1, 21 Smallwood Pl, Murarie, QLD 4172
07 3992 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory
Unit 2, 91 Leach Highway, Kewdale WA 6105
08 9751 9800 EnviroSampleWA@eurofins.com

Melbourne Laboratory
2 Kingston Town Close, Oakleigh, VIC 3166
03 8564 5300 EnviroSampleVIC@eurofins.com

Company	ALLIANCE GEOTECHNICAL	Project No	13546	Project Manager	Jacob W	Sampler(s)	SU
Address	10 WELDER ROAD, SEVEN HILLS NSW	Project Name	Kemps Creek	EDD Format (ESUat, EQuls, Custom)		Handed over by	
Contact Name	Sam J	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	TRH & BTEX	HOLD	Email for Invoice	admin@allgeo.com.au
Phone No	430214402	Suite B19D: Total N, TKN, NOX, NO2, NH3, Total P	L2 Aggressivity Suite	VOC		Email for Results	samjones@allgeo.com.au, enviro@allgeo.com.au, & jacob.walker@allgeo.com.au
Special Directions		E.Coli and total coliforms - thermotolerant				Containers	Turnaround Time (TAT) Requirements (Minimum will be days (1 week))
Purchase Order						1L Plastic	<input type="checkbox"/> Overnight (9am)*
Quote ID No						250mL Plastic	<input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Day*
						125mL Plastic	<input type="checkbox"/> 3 Day* <input type="checkbox"/> 5 Day*
						200mL Amber Glass	<input type="checkbox"/> Other ()
						40mL VOA vial	
						500mL PFAS Bottle	
						Jar (Glass or HDPE)	
							Sample Comments / Dangerous Goods Hazard Warning

No	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid / Water (W))	Analyses	Signature	Date	Time
1	TP14 0.5-0.7	6/10/21	S				
2	TP15 0.0-0.2	6/10/21	S				
3	TP15 0.4-0.4	6/10/21	S				
4	TP16 0.0-0.2	6/10/21	S				
5	TP16 0.4-0.6	6/10/21	S				
6	TP17 0.0-0.2	6/10/21	S				
7	TP17 0.3-0.5	6/10/21	S				
8	TP18 0.5-0.7	6/10/21	S				
9	TP19 0.0-0.1	7/10/21	S				
10	TP20 0.0-0.1	7/10/21	S				
11	TP21 0.0-0.2	7/10/21	S				
12	TP21 1.0-1.2	7/10/21	S				
13	TP21 1.5-1.5	7/10/21	S				
14	TP22 0.0-0.1	6/10/21	S				
15	TP22 1.0-1.2	6/10/21	S				
16	TP22 1.8-2.0	6/10/21	S				
17	TP23 0.0-0.1	7/10/21	S				
18	TP23 1.0-1.2	7/10/21	S				
19	TP23 1.5-1.7	7/10/21	S				
20	TP24 0.0-0.1	7/10/21	S				
21	TP24 0.5-0.7	7/10/21	S				
22	TP25 0.0-0.1	7/10/21	S				
Total Counts							
				11	6	3	3

Method of Shipment	<input checked="" type="checkbox"/> Courier #	<input type="checkbox"/> Hand Delivered	Signature	Date	Time
Eurofins mgt Laboratory Use Only	Received By	Received By	Signature	Date	Time
	WJC			8/10/21	16:8
			Signature	Date	Report No
					833269

CHAIN OF CUSTODY RECORD

ABN 50 005 093 521

Sydney Laboratory
Unit F3 Bld F, 16 Ware Rd, Lane Cove West, NSW 2086
02 9500 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory
Unit 1, 21 Smallwood Pl, Murarie, QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory
Unit 2, 81 Leach Highway, Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

Melbourne Laboratory
2 Kingston Town Close, Oakleigh, VIC 3166
03 9554 5000 EnviroSampleVic@eurofins.com

Company ALLIANCE GEOTECHNICAL

Address 10 WELDER ROAD, SEVEN HILLS NSW

Contact Name Sam J

Phone No 430214402

Special Directions

Purchase Order

Quote ID No

Project No 13546

Project Name Kemps Creek

Project Manager Jacob W

Project Manager EDD Format (ESdat, EQuls, Custom)

Project Manager HOLD

EC and pH

Suite B13 : OCP, PCB

Suite B7: TRH, BTEXN, PAH, Metals

L2 Aggressivity Suite

Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P

TRH & BTEX

VOC

E.Coli and total coliforms - thermotolerant

Sampler(s) SJ

Handed over by

Email for Invoice admin@allneo.com.au

Email for Results samiones@allneo.com.au, enviro@allneo.com.au, & jacob.walker@allneo.com.au

Containers

1L Plastic

250mL Plastic

125mL Plastic

200mL Amber Glass

40mL VOA Vial

500mL PFAS Bottle

Jar (Glass or HDPE)

Other (Asbestos AS4984 WA Guidelines)

Turnaround Time (TAT)
Requirements (Default with 8 days / not in hand)

Overnight (9am)*

1 Day*

3 Day*

5 Day*

2 Day*

Other ()

Sample Comments / Dangerous Goods Hazard Warning

Method of Shipment	Courier #	Hand Delivered	Name		Signature	Date	Time	Temperature	Report No
			Postal	Signature					
<input checked="" type="checkbox"/>		<input type="checkbox"/>	SJ	SJ		8/10/2021	3:41	16.8	833263
Eurofins mgt Laboratory Use Only	Received By					8/10/2021			
	Received By								

Submission of samples to the laboratory will be deemed as acceptance of Eurofins | mgt Standard Terms and Conditions unless agreed otherwise. A copy of Eurofins | mgt Standard Terms and Conditions is available on request.

CHAIN OF CUSTODY RECORD

Sydney Laboratory
Unit F3 Bld.F, 16 Mars Rd, Lane Cove West, NSW 2086
02 9900 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory
Unit 1, 21 Sandalwood Pl, Muramba, QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory
Unit 2, 91 Leach Highway, Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

Melbourne Laboratory
2 Kingston Town Close, Oakleigh VIC 3166
03 8584 5000 EnviroSampleVIC@eurofins.com

Company		Project No		Project Manager		Sampler(s)	
ALLIANCE GEOTECHNICAL		13546		Jacob W		SJ	
Address		Project Name		Handed over by			
10 WELDER ROAD, SEVEN HILLS NSW		Kemps Creek		Email for Invoice		admin@allgeo.com.au	
Contact Name		Analyses		Email for Results			
Sam J		Suite B7: TRH, BTEXN, PAH, Metals		sam.jones@allgeo.com.au		sam.jones@allgeo.com.au & enviro@allgeo.com.au & jacob.walker@allgeo.com.au	
Phone No		EC and pH		Turnaround Time (TAT) Requirements (On-call will be 24hrs if not stated)			
430214402		Suite B13 : OCP, PCB		<input type="checkbox"/> Overnight (8am)* <input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Day* <input type="checkbox"/> 3 Day* <input type="checkbox"/> Other ()			
Special Directions		L2 Aggressivity Suite		Containers			
		Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P		1L Plastic			
Purchase Order		E.Coil and total coliforms - thermotolerant		250mL Plastic			
		Suite B7: TRH, BTEXN, PAH, Metals		125mL Plastic			
Quote ID No		VOC		40mL VOA vial			
		TRH & BTEX		200mL Amber Glass			
		HOLD		500mL PFAS Bottle			
		VOC		Jar (Glass or HDPE)			
		E.Coil and total coliforms - thermotolerant		Other (Asbestos AS3904, WA Guidelines)			
		Suite B7: TRH, BTEXN, PAH, Metals					
		Suite B13 : OCP, PCB					
		L2 Aggressivity Suite					
		Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P					
		E.Coil and total coliforms - thermotolerant					
		HOLD					
		VOC					
		TRH & BTEX					
		Suite B7: TRH, BTEXN, PAH, Metals					
		Suite B13 : OCP, PCB					
		L2 Aggressivity Suite					
		Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P					
		E.Coil and total coliforms - thermotolerant					
		HOLD					
		VOC					
		TRH & BTEX					
		Suite B7: TRH, BTEXN, PAH, Metals					
		Suite B13 : OCP, PCB					
		L2 Aggressivity Suite					
		Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P					
		E.Coil and total coliforms - thermotolerant					
		HOLD					
		VOC					
		TRH & BTEX					
		Suite B7: TRH, BTEXN, PAH, Metals					
		Suite B13 : OCP, PCB					
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		Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P					
		E.Coil and total coliforms - thermotolerant					
		HOLD					
		VOC					
		TRH & BTEX					
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		Suite B13 : OCP, PCB					
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		Suite B7: TRH, BTEXN, PAH, Metals					
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		Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P					
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		HOLD					
		VOC					
		TRH & BTEX					
		Suite B7: TRH, BTEXN, PAH, Metals					
		Suite B13 : OCP, PCB					
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		Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P					
		E.Coil and total coliforms - thermotolerant					
		HOLD					
		VOC					
		TRH & BTEX					
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		Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P					
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		VOC					
		TRH & BTEX					
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		HOLD					
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		Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P					
		E.Coil and total coliforms - thermotolerant					
		HOLD					
		VOC					
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		Suite B7: TRH, BTEXN, PAH, Metals					
		Suite B13 : OCP, PCB					
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		Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P					
		E.Coil and total coliforms - thermotolerant					
		HOLD					
		VOC					
		TRH & BTEX					
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		Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P					
		E.Coil and total coliforms - thermotolerant					
		HOLD					
		VOC					
		TRH & BTEX					
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		Suite B13 : OCP, PCB					
		L2 Aggressivity Suite					
		Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P					
		E.Coil and total coliforms - thermotolerant					
		HOLD					
		VOC					
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		VOC					
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		Suite B13 : OCP, PCB					
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		Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P					
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		L2 Aggressivity Suite					
		Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P					
		E.Coil and total coliforms - thermotolerant					
		HOLD					
		VOC					
		TRH & BTEX					
		Suite B7: TRH, BTEXN, PAH, Metals					
		Suite B13 : OCP, PCB					
		L2 Aggressivity Suite					
		Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P					
		E.Coil and total coliforms - thermotolerant					
		HOLD					
		VOC					
		TRH & BTEX					

CHAIN OF CUSTODY RECORD

ASX 50 095 085 521

Sydney Laboratory
Unit F3 Bld F, 16 Mars Rd, Lane Cove West, NSW 2066
02 9500 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory
Unit 1, 21 Smallwood Pl., Murarie, QLD 4172
07 3902 4630 EnviroSampleQLD@eurofins.com

Perth Laboratory
Unit 2, 91 Leach Highway, Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

Melbourne Laboratory
2 Kirgston Town Close, Oakleigh, VIC 3166
03 8564 5000 EnviroSampleVIC@eurofins.com

Company
ALLIANCE GEOTECHNICAL

Address
10 WELDER ROAD, SEVEN HILLS NSW

Contact Name
Sam J

Phone No
430214402

Special Directions

Purchase Order

Quote ID No

Project No
13546

Project Name
Kemps Creek

Project Manager
Jacob W

EDD Format (ES&I, EQ&I, Custom)
TRH & BTEX
VOC
HOLD

Samplers
Jacob W

Handled over by
SJ

Email for Invoice
admin@allgeo.com.au

Email for Results
samjones@allgeo.com.au,
enviro@allgeo.com.au &
jacob.walker@allgeo.com.au

Containers
Turnaround Time (TAT)
Requirements (please tick appropriate boxes)

Overnight (9am)
 1 Day*
 2 Day*
 3 Day*
 Other ()

Sample Comments / Dangerous Goods Hazard Warning

Analyses

Matrix (Solid (S) Water (W))

Date/Time (dd/mm/yy hh:mm)

Client Sample ID

Sampled

Matrix (Solid (S) Water (W))

Date/Time (dd/mm/yy hh:mm)

Client Sample ID

Sampled

Matrix (Solid (S) Water (W))

Date/Time (dd/mm/yy hh:mm)

Client Sample ID

Sampled

Matrix (Solid (S) Water (W))

Date/Time (dd/mm/yy hh:mm)

Client Sample ID

Sampled

Matrix (Solid (S) Water (W))

Date/Time (dd/mm/yy hh:mm)

Client Sample ID

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Matrix (Solid (S) Water (W))

Date/Time (dd/mm/yy hh:mm)

Client Sample ID

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Matrix (Solid (S) Water (W))

Date/Time (dd/mm/yy hh:mm)

Client Sample ID

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Matrix (Solid (S) Water (W))

Date/Time (dd/mm/yy hh:mm)

Client Sample ID

Sampled

Matrix (Solid (S) Water (W))

Date/Time (dd/mm/yy hh:mm)

Client Sample ID

Sampled

Matrix (Solid (S) Water (W))

Date/Time (dd/mm/yy hh:mm)

Client Sample ID

Sampled

Matrix (Solid (S) Water (W))

Date/Time (dd/mm/yy hh:mm)

Containers
1L Plastic
250mL Plastic
125mL Plastic
200mL Amber Glass
40mL VOA vial
500mL PFAS Bottle
1L Jar (Glass or HDPE)

Other (Asbestos AS4994, WA Guidelines)

Signature

Date

Time

Signature

Date

Time

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Signature

Date

Method of Shipment
 Courier (#)
 Hand Delivered

Received By
Eurofins | mgt
Laboratory Use Only

Received By
Signature

Date

Time

Signature

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Total Counts

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2

Temperature

16.8

Report No

833263

Hand Delivered

Signature

Date

Time

Signature

Date

Time

Signature

Date

Time

Signature

Date

Time

Signature

Date

Time

Signature

Date

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Signature

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Time

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Time

Signature

Date

CHAIN OF CUSTODY RECORD



Sydney Laboratory
Unit F3 Bld.F, 16 Mars Rd, Lane Cove West, NSW 2086
02 9500 8400 EnviroSampleNSW@eurofins.com

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Melbourne Laboratory
2 Kingston Town Close, Oakleigh, VIC 3166
03 8564 5000 EnviroSampleVIC@eurofins.com

ALLIANCE GEOTECHNICAL **13546** **Kemps Creek** **SJ**

10 WELDER ROAD, SEVEN HILLS NSW

Sam J

430214402

Special Directions

Purchase Order

Quote ID No

No	Client Sample ID	Sampled Date/Time (dd/mm/yyyy hh:mm)	Matrix (Solid (S) Water (W))	Analyses		Project Name	Project Manager	Date	Time	Signature	Hand Delivered	Counter (#)	Received By	Received By	Method of Shipment						
				EC and pH	EC and pH																
1	TP33-0.0-0.1	8/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	Kemps Creek	Jacob W	8	3		<input type="checkbox"/>										
2	TP33-0.1-0.3	8/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	Kemps Creek	Jacob W				<input type="checkbox"/>										
3	TP34-0.0-0.2	8/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	Kemps Creek	Jacob W				<input type="checkbox"/>										
4	TP34-0.6-0.8	8/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	Kemps Creek	Jacob W				<input type="checkbox"/>										
5	TP35-0.0-0.2	8/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	Kemps Creek	Jacob W				<input type="checkbox"/>										
6	TP35-0.6-0.8	8/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	Kemps Creek	Jacob W				<input type="checkbox"/>										
7	TP36-0.0-0.1	8/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	Kemps Creek	Jacob W				<input type="checkbox"/>										
8	TP36-0.1-0.3	8/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	Kemps Creek	Jacob W				<input type="checkbox"/>										
9	TP37-0.0-0.1	8/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	Kemps Creek	Jacob W				<input type="checkbox"/>										
10	TP37-0.1-0.3	8/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	Kemps Creek	Jacob W				<input type="checkbox"/>										
11	TP38-0.0-0.2	8/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	Kemps Creek	Jacob W				<input type="checkbox"/>										
12	TP38-0.4-0.6	8/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	Kemps Creek	Jacob W				<input type="checkbox"/>										
13	TP39-0.0-0.1	8/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	Kemps Creek	Jacob W				<input type="checkbox"/>										
14	TP39-0.1-0.3	8/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	Kemps Creek	Jacob W				<input type="checkbox"/>										
15	TP40-0.0-0.1	8/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	Kemps Creek	Jacob W				<input type="checkbox"/>										
16	TP40-0.1-0.3	8/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	Kemps Creek	Jacob W				<input type="checkbox"/>										
17	TP55-0.0-0.2	8/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	Kemps Creek	Jacob W				<input type="checkbox"/>										
18	TP55-0.3-0.5	8/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	Kemps Creek	Jacob W				<input type="checkbox"/>										
19	TP56-0.0-0.2	8/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	Kemps Creek	Jacob W				<input type="checkbox"/>										
20	TP56-0.7-0.9	8/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	Kemps Creek	Jacob W				<input type="checkbox"/>										
21	TP57-0.1-0.1	8/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	Kemps Creek	Jacob W				<input type="checkbox"/>										
22	TP57-0.1-0.3	8/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	Kemps Creek	Jacob W				<input type="checkbox"/>										
Total Counts												8	3	14							

Method of Shipment: Courier (#) Hand Delivered

Received By: **NC** Date: **18/10/21** Time: **3:41** Temperature: **16.8**

Received By: **NC** Date: **18/10/21** Time: **3:41** Report No: **832213**

Signature: *[Signature]* Signature: *[Signature]*

Hand Delivered: Counter (#): **8** Received By: **NC** Date: **18/10/21** Time: **3:41** Temperature: **16.8**

Received By: **NC** Date: **18/10/21** Time: **3:41** Report No: **832213**

CHAIN OF CUSTODY RECORD

ASBN 50 005 035 521

Sydney Laboratory
Unit F3 Bid F, 16 Mars Rd, Lane Cove West, NSW 2086
02 9900 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory
Unit 1, 21 Smallwood Pl, Muramba, QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory
Unit 2, 91 Leach Highway, Kewdale WA 6105
08 9261 9600 EnviroSampleWA@eurofins.com

Melbourne Laboratory
2 Kingsdon Town Close, Oakleigh, VIC 3166
03 8564 5000 EnviroSampleVIC@eurofins.com

Company	ALLIANCE GEOTECHNICAL	Project No	13546	Project Manager	Jacob W	Samplers(s)	SJ
Address	10 WELDER ROAD, SEVEN HILLS NSW	Project Name	Kemps Creek	EDD Format (ESdat, EQUIS, Custom)		Handed over by	
Contact Name	Sam J					Email for Invoice	admin@allgeo.com.au
Phone No	430214402					Email for Results	samjones@allgeo.com.au, enviro@allgeo.com.au, & jacob.walker@allgeo.com.au
Special Directions							
Purchase Order							
Quote ID No							

No.	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))	Analytes		Signature	Date	Temperature
				Method of Shipment	Time			
1	TP58-0.0-0.1	8/10/21	S	Suite B7: TRH, BTEXN, PAH, Metals				
2	TP58-0.1-0.3	8/10/21	S	Suite B13 : OCP, PCB				
3	TP59-0.0-0.2	8/10/21	S	EC and pH				
4	TP59-0.7-0.9	8/10/21	S	L2 Aggressivity Suite & B20 Ion Exchange Suite				
5	TP60-0.0-0.2	8/10/21	S	Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P				
6	TP60-0.5-0.7	8/10/21	S	E. Coli and total coliforms - thermotolerant				
7	SAL01-0.5	8/10/21	S	TRH & BTEX				
8	SAL01-1.0	8/10/21	S	VOC				
9	SAL01-1.5	8/10/21	S	HOLD				
10	SAL01-2.0	8/10/21	S					
11	SAL02-0.5	8/10/21	S					
12	SAL02-1.0	8/10/21	S					
13	SAL02-1.5	8/10/21	S					
14	SAL02-2.0	8/10/21	S					
15	SAL03-0.5	8/10/21	S					
16	SAL03-1.0	8/10/21	S					
17	SAL03-1.5	8/10/21	S					
18	SAL03-2.0	8/10/21	S					
19	SAL03-2.5	8/10/21	S					
20	SAL04-0.5	8/10/21	S					
21	SAL04-1.0	8/10/21	S					
22	SAL04-1.5	8/10/21	S					
Total Counts								

Method of Shipment	<input checked="" type="checkbox"/> Courier (#) <input type="checkbox"/> Hand Delivered	Date	8/10/2021	Time	
Eurofins mgt Laboratory Use Only	Received By	Date	3/9/21	Temperature	16.8
	Received By	Date	1/1/21	Report No	833263

CHAIN OF CUSTODY RECORD

ABN: 50 005 005 521

Sydney Laboratory
Unit F3 Bld F, 16 Mars Rd, Lane Cove West, NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory
Unit 1, 21 Smallwood Pl., Muramba, QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory
Unit 2, 91 Leach Highway, Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

Melbourne Laboratory
2 Kingston Town Ctcs, Oakleigh, VIC 3166
03 8564 5000 EnviroSampleVIC@eurofins.com

Company		ALLIANCE GEOTECHNICAL		Project No	13546		Project Manager	Jacob W		Sampler(s)	SJ	
Address		10 WELDER ROAD, SEVEN HILLS NSW		Project Name	Kemps Creek		EDD Format (ESdat, EQUIS, Custom)			Handed over by		
Contact Name		Sam J		Analyses	Suite B7: TRH, BTEXN, PAH, Metals Suite B13: OCP, PCB EC and pH L2 Aggressivity Suite & B20 Ion Exchange Suite Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P E. Coli and total coliforms - thermotolerant TRH & BTEX VOC HOLD		Containers			Email for Invoice	admin@allgeo.com.au	
Phone No		430214402		Method of Shipment	<input checked="" type="checkbox"/> Courier (#) <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal		Requirements (check all that apply)			Email for Results	samjones@allgeo.com.au & enviro@allgeo.com.au & jacob.walker@allgeo.com.au	
Special Directions				Client Sample ID			Turnaround Time (TAT) (Est#)					
Purchase Order				Sampled Date/Time (dd/mm/yy hh:mm)			Matrix (Solid (S) Water (W))					
Quote ID /#				1	SAL04-2.0		8/10/21	S		250mL Plastic		
				2	SAL05-0.5		8/10/21	S		125mL Plastic		
				3	SAL05-1.0		8/10/21	S		200mL Amber Glass		
				4	SAL05-1.5		8/10/21	S		40mL VOA vial		
				5	SAL05-2.0		8/10/21	S		500mL FIAS Bottle		
				6						1L Plastic		
				7								
				8								
				9								
				10								
				11								
				12								
				13								
				14								
				15								
				16								
				17								
				18								
				19								
				20								
				21								
				22								
Total Counts				5	1	5	1	5	1	5	PAGE 11 OF 11	
Method of Shipment		<input checked="" type="checkbox"/> Courier (#)		<input type="checkbox"/> Hand Delivered		<input type="checkbox"/> Postal				Date	8/10/2021	
Eurofins Ingt Laboratory Use Only		Received By		Signature		Signature		Signature		Date	18/10/21	
		NC		[Signature]		[Signature]		[Signature]		Time	3:41	
		Received By		Signature		Signature		Signature		Date	11/11	
		[Signature]		[Signature]		[Signature]		[Signature]		Time	---	
		Temperature		Report No		Report No		Report No		833263		
		16.8		---		---		---		---		

Submission of samples to the laboratory will be deemed as acceptance of Eurofins | Ingt-Standard Terms and Conditions unless agreed otherwise. A copy of Eurofins | Ingt-Standard Terms and Conditions is available on request.
Eurofins Environment Testing Australia Pty Ltd trading as Eurofins | Ingt



Thu 21/10/2021 8:12 PM

Sam Jones <SamJones@allgeo.com.au>

RE: 13546 COC

To Jacob Walker; Andrew Black

Cc Emma Beesley

EXTERNAL EMAIL*

Hi guys,

In addition to this, please analyse DR02 0.2-0.4 for Suite B7.

Thank you.

Regards,

Sam Jones

Environmental Consultant

Mobile: 0430 214 402 | Email: SamJones@allgeo.com.au



Office Phone: 1800 288 188
Admin Email: admin@allgeo.com.au
Website: allgeo.com.au
Office & Lab: 8-10 Welder Road, Seven Hills NSW 2147
Postal Address: PO Box 275, Seven Hills NSW 1730

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Alliance Geotechnical
10 Welder Road
Seven Hills
NSW 2147



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Accreditation Number 1261
Site Number 18217

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

Attention: **Jacob Walker**

Report **833263-S-V2**
 Project name **KEMPS CREEK**
 Project ID **13546**
 Received Date **Oct 18, 2021**

Client Sample ID			TP01 0.0-0.2	TP02 0.0-0.2	TP03 0.0-0.2	TP04 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38427	S21-Oc38428	S21-Oc38429	S21-Oc38430
Date Sampled			Oct 06, 2021	Oct 06, 2021	Oct 06, 2021	Oct 06, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	126	125	132	123
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			TP01 0.0-0.2	TP02 0.0-0.2	TP03 0.0-0.2	TP04 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38427	S21-Oc38428	S21-Oc38429	S21-Oc38430
Date Sampled			Oct 06, 2021	Oct 06, 2021	Oct 06, 2021	Oct 06, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	79	77	80	92
p-Terphenyl-d14 (surr.)	1	%	84	89	86	90
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	< 0.05
a-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
b-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05
d-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	< 0.1
Dibutylchloroendate (surr.)	1	%	89	-	-	85
Tetrachloro-m-xylene (surr.)	1	%	78	-	-	84
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
Dibutylchloroendate (surr.)	1	%	89	-	-	85
Tetrachloro-m-xylene (surr.)	1	%	78	-	-	84

Client Sample ID			TP01 0.0-0.2	TP02 0.0-0.2	TP03 0.0-0.2	TP04 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38427	S21-Oc38428	S21-Oc38429	S21-Oc38430
Date Sampled			Oct 06, 2021	Oct 06, 2021	Oct 06, 2021	Oct 06, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	9.5	9.8	8.1	9.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	21	21	22	17
Copper	5	mg/kg	32	31	18	46
Lead	5	mg/kg	20	20	26	28
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	22	22	10	25
Zinc	5	mg/kg	89	83	39	92
% Moisture						
% Moisture	1	%	13	14	9.0	9.7
Ammonia (as N)	5	mg/kg	-	-	-	^{R09} 1400
Nitrate & Nitrite (as N)	5	mg/kg	-	-	-	3500
Nitrate (as N)	5	mg/kg	-	-	-	3500
Nitrite (as N)	5	mg/kg	-	-	-	< 5
Total Kjeldahl Nitrogen (as N)	10	mg/kg	-	-	-	^{R09} 1200
Total Nitrogen (as N)*	10	mg/kg	-	-	-	4700
Phosphorus	5	mg/kg	-	-	-	580

Client Sample ID			TP05 0.0-0.1	TP06 0.0-0.2	TP07 0.0-0.2	TP08 0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38431	S21-Oc38432	S21-Oc38433	S21-Oc38434
Date Sampled			Oct 06, 2021	Oct 06, 2021	Oct 06, 2021	Oct 06, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	119	123	77	110

Client Sample ID			TP05 0.0-0.1	TP06 0.0-0.2	TP07 0.0-0.2	TP08 0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38431	S21-Oc38432	S21-Oc38433	S21-Oc38434
Date Sampled			Oct 06, 2021	Oct 06, 2021	Oct 06, 2021	Oct 06, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	97	97	106	58
p-Terphenyl-d14 (surr.)	1	%	90	91	91	83
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	-
a-HCH	0.05	mg/kg	< 0.05	< 0.05	-	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
b-HCH	0.05	mg/kg	< 0.05	< 0.05	-	-
d-HCH	0.05	mg/kg	< 0.05	< 0.05	-	-
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	-
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	-
Dibutylchloroendate (surr.)	1	%	81	92	-	-
Tetrachloro-m-xylene (surr.)	1	%	88	89	-	-

Client Sample ID			TP05 0.0-0.1	TP06 0.0-0.2	TP07 0.0-0.2	TP08 0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38431	S21-Oc38432	S21-Oc38433	S21-Oc38434
Date Sampled			Oct 06, 2021	Oct 06, 2021	Oct 06, 2021	Oct 06, 2021
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	-	-
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	81	92	-	-
Tetrachloro-m-xylene (surr.)	1	%	88	89	-	-
Heavy Metals						
Arsenic	2	mg/kg	10	9.7	6.0	8.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	28	19	14	18
Copper	5	mg/kg	36	32	17	22
Lead	5	mg/kg	15	23	19	24
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	24	22	9.5	15
Zinc	5	mg/kg	78	99	590	95
% Moisture						
% Moisture	1	%	20	12	10	9.6
Ammonia (as N)	5	mg/kg	20	< 5	-	-
Nitrate & Nitrite (as N)	5	mg/kg	69	6.8	-	-
Nitrate (as N)	5	mg/kg	69	6.8	-	-
Nitrite (as N)	5	mg/kg	< 5	< 5	-	-
Total Kjeldahl Nitrogen (as N)	10	mg/kg	370	32	-	-
Total Nitrogen (as N)*	10	mg/kg	439	38.8	-	-
Phosphorus	5	mg/kg	460	910	-	-

Client Sample ID			TP09 0.0-0.2	TP10 0.0-0.2	TP11 0.0-0.1	TP12 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38435	S21-Oc38436	S21-Oc38437	S21-Oc38438
Date Sampled			Oct 06, 2021	Oct 06, 2021	Oct 06, 2021	Oct 06, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	160	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	98	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	258	< 50	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	51	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	51	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	190	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	110	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	351	< 100	< 100

Client Sample ID			TP09 0.0-0.2	TP10 0.0-0.2	TP11 0.0-0.1	TP12 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38435	S21-Oc38436	S21-Oc38437	S21-Oc38438
Date Sampled			Oct 06, 2021	Oct 06, 2021	Oct 06, 2021	Oct 06, 2021
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	126	132	130	118
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	61	61	61	54
p-Terphenyl-d14 (surr.)	1	%	86	81	99	70
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05

Client Sample ID			TP09 0.0-0.2	TP10 0.0-0.2	TP11 0.0-0.1	TP12 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38435	S21-Oc38436	S21-Oc38437	S21-Oc38438
Date Sampled			Oct 06, 2021	Oct 06, 2021	Oct 06, 2021	Oct 06, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	106	-	105	71
Tetrachloro-m-xylene (surr.)	1	%	87	-	94	72
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	106	-	105	71
Tetrachloro-m-xylene (surr.)	1	%	87	-	94	72
Heavy Metals						
Arsenic	2	mg/kg	4.0	3.7	8.2	6.4
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	10	16	24	18
Copper	5	mg/kg	18	11	33	40
Lead	5	mg/kg	15	15	20	16
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	8.5	8.9	19	16
Zinc	5	mg/kg	130	30	63	74
% Moisture						
% Moisture	1	%	11	6.1	12	9.3
Ammonia (as N)	5	mg/kg	-	-	1700	2000
Nitrate & Nitrite (as N)	5	mg/kg	-	-	2000	3100
Nitrate (as N)	5	mg/kg	-	-	2000	3100
Nitrite (as N)	5	mg/kg	-	-	< 5	< 5
Total Kjeldahl Nitrogen (as N)	10	mg/kg	-	-	2900	3400
Total Nitrogen (as N)*	10	mg/kg	-	-	4900	6500
Phosphorus	5	mg/kg	-	-	780	600

Client Sample ID			TP14 0.0-0.2	TP15 0.0-0.2	TP16 0.0-0.2	TP17 0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38439	S21-Oc38440	S21-Oc38441	S21-Oc38442
Date Sampled			Oct 06, 2021	Oct 06, 2021	Oct 06, 2021	Oct 06, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 40	< 40
TRH C15-C28	50	mg/kg	63	< 50	210	170
TRH C29-C36	50	mg/kg	82	< 50	520	490
TRH C10-C36 (Total)	50	mg/kg	145	< 50	730	660
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 100	< 100
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 100	< 100
TRH >C16-C34	100	mg/kg	120	< 100	560	510
TRH >C34-C40	100	mg/kg	< 100	< 100	790	600
TRH >C10-C40 (total)*	100	mg/kg	120	< 100	1350	1110
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	119	127	127	132
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.7	0.7
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.3
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	0.8	0.6
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	0.7	0.6
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.6
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	0.7	0.7
Chrysene	0.5	mg/kg	< 0.5	< 0.5	0.8	0.9
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	0.7	0.7
Fluorene	0.5	mg/kg	< 0.5	< 0.5	0.8	0.8
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	0.5	0.6
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	0.6	0.6
Pyrene	0.5	mg/kg	< 0.5	< 0.5	0.6	0.8
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	6.2	6.9
2-Fluorobiphenyl (surr.)	1	%	85	86	88	80
p-Terphenyl-d14 (surr.)	1	%	108	100	109	107
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	-	-

Client Sample ID			TP14 0.0-0.2	TP15 0.0-0.2	TP16 0.0-0.2	TP17 0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38439	S21-Oc38440	S21-Oc38441	S21-Oc38442
Date Sampled			Oct 06, 2021	Oct 06, 2021	Oct 06, 2021	Oct 06, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
a-HCH	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-HCH	0.05	mg/kg	-	< 0.05	-	-
d-HCH	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	0.5	mg/kg	-	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchloroendate (surr.)	1	%	-	114	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	97	-	-
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	-	-
Dibutylchloroendate (surr.)	1	%	-	114	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	97	-	-
Heavy Metals						
Arsenic	2	mg/kg	9.1	17	3.0	2.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	23	15	14	26
Copper	5	mg/kg	58	44	64	41
Lead	5	mg/kg	27	29	13	11
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	23	31	16	18
Zinc	5	mg/kg	180	100	84	95
% Moisture	1	%	17	6.9	9.1	7.3

Client Sample ID			TP18 0.0-0.2	TP19 0.0-0.1	TP20 0.0-0.1	TP21 0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38443	S21-Oc38444	S21-Oc38445	S21-Oc38446
Date Sampled			Oct 06, 2021	Oct 07, 2021	Oct 07, 2021	Oct 07, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 100	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	110	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	220	< 50	72	57
TRH C10-C36 (Total)	50	mg/kg	330	< 50	72	57
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 2.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 100	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 100	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	250	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	260	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	510	< 100	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.5	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.5	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.5	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 1	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.5	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 1.5	< 0.3
4-Bromofluorobenzene (surr.)	1	%	132	102	98	105
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.7	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.3	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	0.8	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	0.6	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	0.6	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	0.6	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	0.8	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	1.0	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	0.7	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	0.8	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	0.7	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	0.7	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	8.3	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	75	74	77	79
p-Terphenyl-d14 (surr.)	1	%	109	66	77	80
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

Client Sample ID			TP18 0.0-0.2	TP19 0.0-0.1	TP20 0.0-0.1	TP21 0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38443	S21-Oc38444	S21-Oc38445	S21-Oc38446
Date Sampled			Oct 06, 2021	Oct 07, 2021	Oct 07, 2021	Oct 07, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
a-HCH	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	-	82	91	97
Tetrachloro-m-xylene (surr.)	1	%	-	73	79	81
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	-	82	91	97
Tetrachloro-m-xylene (surr.)	1	%	-	73	79	81
Heavy Metals						
Arsenic	2	mg/kg	3.8	13	8.2	15
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	34	17	6.5	25
Copper	5	mg/kg	54	34	84	45
Lead	5	mg/kg	14	18	8.5	30
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	32	22	18	18
Zinc	5	mg/kg	170	100	300	120
% Moisture						
% Moisture	1	%	12	6.7	8.2	11
Ammonia (as N)	5	mg/kg	-	^{R09} 2200	^{R09} 3300	< 5
Nitrate & Nitrite (as N)	5	mg/kg	-	4500	11000	5.2
Nitrate (as N)	5	mg/kg	-	4500	11000	< 5
Nitrite (as N)	5	mg/kg	-	< 5	< 5	< 5

Client Sample ID			TP18 0.0-0.2	TP19 0.0-0.1	TP20 0.0-0.1	TP21 0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38443	S21-Oc38444	S21-Oc38445	S21-Oc38446
Date Sampled			Oct 06, 2021	Oct 07, 2021	Oct 07, 2021	Oct 07, 2021
Test/Reference	LOR	Unit				
Total Kjeldahl Nitrogen (as N)	10	mg/kg	-	^{R09} 2100	^{R09} 1700	2500
Total Nitrogen (as N)*	10	mg/kg	-	6600	12700	2505.2
Phosphorus	5	mg/kg	-	840	11000	860

Client Sample ID			TP22 0.0-0.1	TP23 0.0-0.1	TP24 0.0-0.1	TP25 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38447	S21-Oc38448	S21-Oc38449	S21-Oc38450
Date Sampled			Oct 06, 2021	Oct 07, 2021	Oct 07, 2021	Oct 07, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	54	< 50	110
TRH C10-C36 (Total)	50	mg/kg	< 50	54	< 50	110
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	110
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	110
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	101	103	98	104
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			TP22 0.0-0.1	TP23 0.0-0.1	TP24 0.0-0.1	TP25 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38447	S21-Oc38448	S21-Oc38449	S21-Oc38450
Date Sampled			Oct 06, 2021	Oct 07, 2021	Oct 07, 2021	Oct 07, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	78	115	102	77
p-Terphenyl-d14 (surr.)	1	%	83	87	90	74
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	< 0.1
4,4'-DDD	0.05	mg/kg	< 0.05	-	-	< 0.05
4,4'-DDE	0.05	mg/kg	< 0.05	-	-	< 0.05
4,4'-DDT	0.05	mg/kg	< 0.05	-	-	< 0.05
a-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
b-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05
d-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	< 0.1
Dibutylchloroendate (surr.)	1	%	103	-	-	74
Tetrachloro-m-xylene (surr.)	1	%	81	-	-	77
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
Dibutylchloroendate (surr.)	1	%	103	-	-	74
Tetrachloro-m-xylene (surr.)	1	%	81	-	-	77

Client Sample ID			TP22 0.0-0.1	TP23 0.0-0.1	TP24 0.0-0.1	TP25 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38447	S21-Oc38448	S21-Oc38449	S21-Oc38450
Date Sampled			Oct 06, 2021	Oct 07, 2021	Oct 07, 2021	Oct 07, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	15	15	18	12
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	19	25	33	20
Copper	5	mg/kg	46	27	29	23
Lead	5	mg/kg	26	25	44	35
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	21	23	15	9.6
Zinc	5	mg/kg	180	120	63	84
% Moisture	1	%	16	9.7	14	8.9

Client Sample ID			TP26 1.0-1.2	DR01 0.0-0.2	DR02 0.0-0.2	DR03 0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38451	S21-Oc38452	S21-Oc38453	S21-Oc38454
Date Sampled			Oct 07, 2021	Oct 06, 2021	Oct 06, 2021	Oct 06, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 100
TRH C15-C28	50	mg/kg	< 50	79	< 50	300
TRH C29-C36	50	mg/kg	87	180	66	860
TRH C10-C36 (Total)	50	mg/kg	87	259	66	1160
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 250
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 250
TRH >C16-C34	100	mg/kg	< 100	200	< 100	880
TRH >C34-C40	100	mg/kg	120	230	100	1100
TRH >C10-C40 (total)*	100	mg/kg	120	430	100	1980
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	98	88	98	98
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.7
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	1.0
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.3
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.6
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			TP26 1.0-1.2	DR01 0.0-0.2	DR02 0.0-0.2	DR03 0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38451	S21-Oc38452	S21-Oc38453	S21-Oc38454
Date Sampled			Oct 07, 2021	Oct 06, 2021	Oct 06, 2021	Oct 06, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.4
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.7
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	2.7
2-Fluorobiphenyl (surr.)	1	%	64	84	96	89
p-Terphenyl-d14 (surr.)	1	%	90	88	88	84
Heavy Metals						
Arsenic	2	mg/kg	14	4.3	3.2	3.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	30	24	19	17
Copper	5	mg/kg	38	34	21	52
Lead	5	mg/kg	35	21	13	15
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	22	22	16	15
Zinc	5	mg/kg	86	84	48	46
% Moisture	1	%	13	5.3	4.0	5.3

Client Sample ID			DR04 0.0-0.1	DR05 0.0-0.1	DR06 0.0-0.1	DR07 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38455	S21-Oc38456	S21-Oc38457	S21-Oc38458
Date Sampled			Oct 07, 2021	Oct 07, 2021	Oct 07, 2021	Oct 07, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 40	< 20
TRH C15-C28	50	mg/kg	65	< 50	< 100	< 50
TRH C29-C36	50	mg/kg	150	53	130	< 50
TRH C10-C36 (Total)	50	mg/kg	215	53	130	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 100	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 100	< 50
TRH >C16-C34	100	mg/kg	170	< 100	< 200	< 100
TRH >C34-C40	100	mg/kg	170	< 100	< 200	< 100
TRH >C10-C40 (total)*	100	mg/kg	340	< 100	< 200	< 100

Client Sample ID			DR04 0.0-0.1	DR05 0.0-0.1	DR06 0.0-0.1	DR07 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38455	S21-Oc38456	S21-Oc38457	S21-Oc38458
Date Sampled			Oct 07, 2021	Oct 07, 2021	Oct 07, 2021	Oct 07, 2021
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	101	98	122	129
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	91	93	91	105
p-Terphenyl-d14 (surr.)	1	%	86	81	79	86
Heavy Metals						
Arsenic	2	mg/kg	3.4	4.8	12	3.7
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	14	59	33	18
Copper	5	mg/kg	41	14	35	9.3
Lead	5	mg/kg	13	17	25	14
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	14	21	28	21
Zinc	5	mg/kg	93	37	95	34
% Moisture	1	%	3.3	5.7	12	4.7

Client Sample ID			DR08 0.0-0.1	^{G01} SP1-1	SP1-2	SP1-3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38459	S21-Oc38460	S21-Oc38461	S21-Oc38462
Date Sampled			Oct 07, 2021	Oct 07, 2021	Oct 07, 2021	Oct 07, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 40	< 40
TRH C15-C28	50	mg/kg	< 50	210	< 100	270
TRH C29-C36	50	mg/kg	< 50	280	160	390
TRH C10-C36 (Total)	50	mg/kg	< 50	490	160	660
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 100	< 100
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 100	< 100
TRH >C16-C34	100	mg/kg	< 100	430	< 200	590
TRH >C34-C40	100	mg/kg	< 100	180	< 200	< 200
TRH >C10-C40 (total)*	100	mg/kg	< 100	610	< 200	590
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	98	78	68	89
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	82	99	91	91
p-Terphenyl-d14 (surr.)	1	%	66	77	73	87
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 1	< 1	< 1
4,4'-DDD	0.05	mg/kg	-	< 0.5	< 0.5	< 0.5
4,4'-DDE	0.05	mg/kg	-	< 0.5	< 0.5	< 0.5
4,4'-DDT	0.05	mg/kg	-	< 0.5	< 0.5	< 0.5

Client Sample ID			DR08 0.0-0.1	^{G01} SP1-1	SP1-2	SP1-3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38459	S21-Oc38460	S21-Oc38461	S21-Oc38462
Date Sampled			Oct 07, 2021	Oct 07, 2021	Oct 07, 2021	Oct 07, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
a-HCH	0.05	mg/kg	-	< 0.5	< 0.5	< 0.5
Aldrin	0.05	mg/kg	-	< 0.5	< 0.5	< 0.5
b-HCH	0.05	mg/kg	-	< 0.5	< 0.5	< 0.5
d-HCH	0.05	mg/kg	-	< 0.5	< 0.5	< 0.5
Dieldrin	0.05	mg/kg	-	< 0.5	< 0.5	< 0.5
Endosulfan I	0.05	mg/kg	-	< 0.5	< 0.5	< 0.5
Endosulfan II	0.05	mg/kg	-	< 0.5	< 0.5	< 0.5
Endosulfan sulphate	0.05	mg/kg	-	< 0.5	< 0.5	< 0.5
Endrin	0.05	mg/kg	-	< 0.5	< 0.5	< 0.5
Endrin aldehyde	0.05	mg/kg	-	< 0.5	< 0.5	< 0.5
Endrin ketone	0.05	mg/kg	-	< 0.5	< 0.5	< 0.5
g-HCH (Lindane)	0.05	mg/kg	-	< 0.5	< 0.5	< 0.5
Heptachlor	0.05	mg/kg	-	< 0.5	< 0.5	< 0.5
Heptachlor epoxide	0.05	mg/kg	-	< 0.5	< 0.5	< 0.5
Hexachlorobenzene	0.05	mg/kg	-	< 0.5	< 0.5	< 0.5
Methoxychlor	0.05	mg/kg	-	< 0.5	< 0.5	< 0.5
Toxaphene	0.5	mg/kg	-	< 10	< 10	< 10
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.5	< 0.5	< 0.5
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 1	< 1	< 1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 1	< 1	< 1
Dibutylchloroendate (surr.)	1	%	-	57	80	62
Tetrachloro-m-xylene (surr.)	1	%	-	59	70	58
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 1	< 1	< 1
Aroclor-1221	0.1	mg/kg	-	< 1	< 1	< 1
Aroclor-1232	0.1	mg/kg	-	< 1	< 1	< 1
Aroclor-1242	0.1	mg/kg	-	< 1	< 1	< 1
Aroclor-1248	0.1	mg/kg	-	< 1	< 1	< 1
Aroclor-1254	0.1	mg/kg	-	< 1	< 1	< 1
Aroclor-1260	0.1	mg/kg	-	< 1	< 1	< 1
Total PCB*	0.1	mg/kg	-	< 1	< 1	< 1
Dibutylchloroendate (surr.)	1	%	-	57	80	62
Tetrachloro-m-xylene (surr.)	1	%	-	59	70	58
Heavy Metals						
Arsenic	2	mg/kg	6.3	3.3	4.8	5.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	13	9.8	14	18
Copper	5	mg/kg	8.4	260	120	150
Lead	5	mg/kg	14	12	16	24
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	6.3	15	15	22
Zinc	5	mg/kg	21	1000	380	640
% Moisture						
% Moisture	1	%	6.1	39	33	26
Ammonia (as N)	5	mg/kg	-	< 250	< 5	5.4
Nitrate & Nitrite (as N)	5	mg/kg	-	1800	750	760
Nitrate (as N)	5	mg/kg	-	1800	750	760
Nitrite (as N)	5	mg/kg	-	< 5	< 5	< 5

Client Sample ID			DR08 0.0-0.1	^{G01} SP1-1	SP1-2	SP1-3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38459	S21-Oc38460	S21-Oc38461	S21-Oc38462
Date Sampled			Oct 07, 2021	Oct 07, 2021	Oct 07, 2021	Oct 07, 2021
Test/Reference	LOR	Unit				
Total Kjeldahl Nitrogen (as N)	10	mg/kg	-	24000	12000	23000
Total Nitrogen (as N)*	10	mg/kg	-	25800	12750	23760
Phosphorus	5	mg/kg	-	14000	13000	12000

Client Sample ID			DS01	DS02	DS03	DS04
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38463	S21-Oc38464	S21-Oc38465	S21-Oc38466
Date Sampled			Oct 07, 2021	Oct 07, 2021	Oct 07, 2021	Oct 07, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	56	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	56	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	73	73	93	71
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			DS01	DS02	DS03	DS04
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38463	S21-Oc38464	S21-Oc38465	S21-Oc38466
Date Sampled			Oct 07, 2021	Oct 07, 2021	Oct 07, 2021	Oct 07, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	99	89	122	90
p-Terphenyl-d14 (surr.)	1	%	90	77	106	87
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	-
4,4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	-
4,4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	-
4,4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	-
a-HCH	0.05	mg/kg	< 0.05	< 0.05	-	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
b-HCH	0.05	mg/kg	< 0.05	< 0.05	-	-
d-HCH	0.05	mg/kg	< 0.05	< 0.05	-	-
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	-
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	-
Dibutylchloroendate (surr.)	1	%	63	68	-	-
Tetrachloro-m-xylene (surr.)	1	%	83	61	-	-
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	-	-
Dibutylchloroendate (surr.)	1	%	63	68	-	-
Tetrachloro-m-xylene (surr.)	1	%	83	61	-	-

Client Sample ID			DS01	DS02	DS03	DS04
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38463	S21-Oc38464	S21-Oc38465	S21-Oc38466
Date Sampled			Oct 07, 2021	Oct 07, 2021	Oct 07, 2021	Oct 07, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	18	4.4	8.0	7.2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	30	10	21	21
Copper	5	mg/kg	48	13	32	31
Lead	5	mg/kg	38	13	22	22
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	24	6.3	15	17
Zinc	5	mg/kg	110	30	51	52
% Moisture						
% Moisture	1	%	28	27	35	34
Ammonia (as N)	5	mg/kg	13	12	-	-
Nitrate & Nitrite (as N)	5	mg/kg	< 5	< 5	-	-
Nitrate (as N)	5	mg/kg	< 5	< 5	-	-
Nitrite (as N)	5	mg/kg	< 5	< 5	-	-
Total Kjeldahl Nitrogen (as N)	10	mg/kg	2200	1700	-	-
Total Nitrogen (as N)*	10	mg/kg	2200	1700	-	-
Phosphorus	5	mg/kg	650	730	-	-

Client Sample ID			DS05	DS06	BD1	BD2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38467	S21-Oc38468	S21-Oc38475	S21-Oc38476
Date Sampled			Oct 07, 2021	Oct 07, 2021	Oct 07, 2021	Oct 07, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	-
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	-
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	-
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	-
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	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	107	90	95	-

Client Sample ID			DS05	DS06	BD1	BD2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38467	S21-Oc38468	S21-Oc38475	S21-Oc38476
Date Sampled			Oct 07, 2021	Oct 07, 2021	Oct 07, 2021	Oct 07, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	91	113	103	-
p-Terphenyl-d14 (surr.)	1	%	91	88	86	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4,4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4,4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4,4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-HCH	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-HCH	0.05	mg/kg	-	-	-	< 0.05
d-HCH	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.05	mg/kg	-	-	-	< 0.05
Toxaphene	0.5	mg/kg	-	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchloroendate (surr.)	1	%	-	-	-	90
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	78

Client Sample ID			DS05	DS06	BD1	BD2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38467	S21-Oc38468	S21-Oc38475	S21-Oc38476
Date Sampled			Oct 07, 2021	Oct 07, 2021	Oct 07, 2021	Oct 07, 2021
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	-	-	-	< 0.1
Total PCB*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchloroendate (surr.)	1	%	-	-	-	90
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	78
Heavy Metals						
Arsenic	2	mg/kg	9.5	16	10	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	21	27	23	-
Copper	5	mg/kg	26	26	28	-
Lead	5	mg/kg	13	41	27	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Nickel	5	mg/kg	17	16	15	-
Zinc	5	mg/kg	49	71	59	-
% Moisture	1	%	27	29	14	20

Client Sample ID			TRIP BLANK 1	TRIP BLANK 2	TRIP BLANK 3	TRIP BLANK 4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38477	S21-Oc38478	S21-Oc38479	S21-Oc38480
Date Sampled			Oct 07, 2021	Oct 07, 2021	Oct 07, 2021	Oct 07, 2021
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	78	78	81	81

Client Sample ID			TRIP BLANK 5	TRIP SPIKE 1	TRIP SPIKE 2	TRIP SPIKE 3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38481	S21-Oc38482	S21-Oc38483	S21-Oc38484
Date Sampled			Oct 07, 2021	Oct 07, 2021	Oct 07, 2021	Oct 07, 2021
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	80	-	-	-
BTEX						
Benzene	1	%	-	94	100	100
Ethylbenzene	1	%	-	96	100	100
m&p-Xylenes	1	%	-	96	99	100
o-Xylene	1	%	-	95	100	100
Toluene	1	%	-	97	100	100
Xylenes - Total	1	%	-	95	100	100
4-Bromofluorobenzene (surr.)	1	%	-	74	76	74

Client Sample ID			TRIP SPIKE 4	TRIP SPIKE 5	BD3	PP2 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38485	S21-Oc38486	S21-Oc38492	S21-Oc38493
Date Sampled			Oct 07, 2021	Oct 07, 2021	Mar 12, 2021	Aug 13, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	< 50	-
TRH C29-C36	50	mg/kg	-	-	66	-
TRH C10-C36 (Total)	50	mg/kg	-	-	66	-
Naphthalene ^{N02}	0.5	mg/kg	-	-	< 0.5	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	< 100	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	-
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	-	89	-
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	-

Client Sample ID			TRIP SPIKE 4	TRIP SPIKE 5	BD3	PP2 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38485	S21-Oc38486	S21-Oc38492	S21-Oc38493
Date Sampled			Oct 07, 2021	Oct 07, 2021	Mar 12, 2021	Aug 13, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	%	-	-	102	-
p-Terphenyl-d14 (surr.)	1	%	-	-	80	-
Heavy Metals						
Arsenic	2	mg/kg	-	-	15	20
Cadmium	0.4	mg/kg	-	-	< 0.4	< 0.4
Chromium	5	mg/kg	-	-	36	25
Copper	5	mg/kg	-	-	40	26
Lead	5	mg/kg	-	-	30	-
Mercury	0.1	mg/kg	-	-	< 0.1	-
Nickel	5	mg/kg	-	-	30	-
Zinc	5	mg/kg	-	-	220	-
% Moisture						
% Moisture	1	%	-	-	9.1	13
BTEX						
Benzene	1	%	100	94	-	-
Ethylbenzene	1	%	110	92	-	-
m&p-Xylenes	1	%	100	92	-	-
o-Xylene	1	%	100	92	-	-
Toluene	1	%	100	93	-	-
Xylenes - Total	1	%	100	92	-	-
4-Bromofluorobenzene (surr.)	1	%	79	53	-	-

Client Sample ID			PP3 0.0-0.1	PP4 0.0-0.1	PP5 0.0-0.1	PP6 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38494	S21-Oc38495	S21-Oc38496	S21-Oc38497
Date Sampled			Aug 13, 2021	Aug 12, 2021	Oct 13, 2021	Oct 12, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	39	13	9.9	39
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	21	23	16	23
Copper	5	mg/kg	24	30	21	41

Client Sample ID			PP3 0.0-0.1	PP4 0.0-0.1	PP5 0.0-0.1	PP6 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38494	S21-Oc38495	S21-Oc38496	S21-Oc38497
Date Sampled			Aug 13, 2021	Aug 12, 2021	Oct 13, 2021	Oct 12, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	11	9.5	11	8.5

Client Sample ID			PP7 0.0-0.1	PP8 0.0-0.1	DR11 0.0-0.1	DR12 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38498	S21-Oc38499	S21-Oc38500	S21-Oc38501
Date Sampled			Oct 12, 2021	Oct 12, 2021	Oct 13, 2021	Oct 13, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	< 20	< 20
TRH C10-C14	20	mg/kg	-	-	< 20	< 20
TRH C15-C28	50	mg/kg	-	-	< 50	60
TRH C29-C36	50	mg/kg	-	-	< 50	77
TRH C10-C36 (Total)	50	mg/kg	-	-	< 50	137
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	110
TRH >C34-C40	100	mg/kg	-	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	110
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	-	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	-	-	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	69	85
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
Benzo(a)anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	-	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	-	< 0.5	< 0.5

Client Sample ID			PP7 0.0-0.1	PP8 0.0-0.1	DR11 0.0-0.1	DR12 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38498	S21-Oc38499	S21-Oc38500	S21-Oc38501
Date Sampled			Oct 12, 2021	Oct 12, 2021	Oct 13, 2021	Oct 13, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	-	108	108
p-Terphenyl-d14 (surr.)	1	%	-	-	82	86
Heavy Metals						
Arsenic	2	mg/kg	4.9	7.0	< 2	17
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	10	13	< 5	26
Copper	5	mg/kg	19	29	< 5	52
Lead	5	mg/kg	-	-	< 5	37
Mercury	0.1	mg/kg	-	-	< 0.1	< 0.1
Nickel	5	mg/kg	-	-	< 5	37
Zinc	5	mg/kg	-	-	< 5	110
% Moisture	1	%	7.0	18	7.8	11

Client Sample ID			DR13 0.0-0.1	DR14 0.0-0.1	DS07	DS08
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38502	S21-Oc38503	S21-Oc38504	S21-Oc38505
Date Sampled			Oct 13, 2021	Oct 13, 2021	Oct 13, 2021	Oct 13, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	89	85	78	75
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			DR13 0.0-0.1	DR14 0.0-0.1	DS07	DS08
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38502	S21-Oc38503	S21-Oc38504	S21-Oc38505
Date Sampled			Oct 13, 2021	Oct 13, 2021	Oct 13, 2021	Oct 13, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	95	110	86	84
p-Terphenyl-d14 (surr.)	1	%	76	94	95	92
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	< 0.05
a-HCH	0.05	mg/kg	-	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
b-HCH	0.05	mg/kg	-	-	< 0.05	< 0.05
d-HCH	0.05	mg/kg	-	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	-	-	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	-	-	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	-	-	94	93
Tetrachloro-m-xylene (surr.)	1	%	-	-	89	85

Client Sample ID			DR13 0.0-0.1	DR14 0.0-0.1	DS07	DS08
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38502	S21-Oc38503	S21-Oc38504	S21-Oc38505
Date Sampled			Oct 13, 2021	Oct 13, 2021	Oct 13, 2021	Oct 13, 2021
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	-	-	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	-	-	94	93
Tetrachloro-m-xylene (surr.)	1	%	-	-	89	85
Heavy Metals						
Arsenic	2	mg/kg	12	7.8	18	16
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	21	21	16	18
Copper	5	mg/kg	19	36	16	18
Lead	5	mg/kg	24	18	20	18
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	14	26	15	13
Zinc	5	mg/kg	44	64	51	54
% Moisture	1	%	14	10	13	15

Client Sample ID			DS09	DS10	TP13-0.0-0.2	TP27-0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38506	S21-Oc38507	S21-Oc38510	S21-Oc38511
Date Sampled			Oct 13, 2021	Oct 13, 2021	Oct 08, 2021	Oct 08, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	61	51	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	61	51	< 50	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	50	75	^{Q09} INT	83

Client Sample ID			DS09	DS10	TP13-0.0-0.2	TP27-0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38506	S21-Oc38507	S21-Oc38510	S21-Oc38511
Date Sampled			Oct 13, 2021	Oct 13, 2021	Oct 08, 2021	Oct 08, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	79	79	106	109
p-Terphenyl-d14 (surr.)	1	%	79	75	82	84
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	-
a-HCH	0.05	mg/kg	< 0.05	< 0.05	-	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
b-HCH	0.05	mg/kg	< 0.05	< 0.05	-	-
d-HCH	0.05	mg/kg	< 0.05	< 0.05	-	-
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	-
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	-
Dibutylchloroendate (surr.)	1	%	79	85	-	-
Tetrachloro-m-xylene (surr.)	1	%	83	80	-	-

Client Sample ID			DS09	DS10	TP13-0.0-0.2	TP27-0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38506	S21-Oc38507	S21-Oc38510	S21-Oc38511
Date Sampled			Oct 13, 2021	Oct 13, 2021	Oct 08, 2021	Oct 08, 2021
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	-	-
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	-	-
Dibutylchloredate (surr.)	1	%	79	85	-	-
Tetrachloro-m-xylene (surr.)	1	%	83	80	-	-
Heavy Metals						
Arsenic	2	mg/kg	9.1	13	11	9.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	16	19	19	20
Copper	5	mg/kg	27	23	25	36
Lead	5	mg/kg	18	22	22	25
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	16	20	11	21
Zinc	5	mg/kg	59	71	67	120
% Moisture						
% Moisture	1	%	10	11	8.7	7.4
Ammonia (as N)	5	mg/kg	-	-	7.3	-
Nitrate & Nitrite (as N)	5	mg/kg	-	-	5.0	-
Nitrate (as N)	5	mg/kg	-	-	< 5	-
Nitrite (as N)	5	mg/kg	-	-	< 5	-
Total Kjeldahl Nitrogen (as N)	10	mg/kg	-	-	2200	-
Total Nitrogen (as N)*	10	mg/kg	-	-	2205	-
Phosphorus	5	mg/kg	-	-	1300	-

Client Sample ID			TP28-0.0-0.1	TP29-0.0-0.2	TP30-0.0-0.2	TP31-0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38512	S21-Oc38513	S21-Oc38514	S21-Oc38515
Date Sampled			Oct 08, 2021	Oct 08, 2021	Oct 08, 2021	Oct 08, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100

Client Sample ID			TP28-0.0-0.1	TP29-0.0-0.2	TP30-0.0-0.2	TP31-0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38512	S21-Oc38513	S21-Oc38514	S21-Oc38515
Date Sampled			Oct 08, 2021	Oct 08, 2021	Oct 08, 2021	Oct 08, 2021
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	86	81	92	91
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	103	79	89	88
p-Terphenyl-d14 (surr.)	1	%	82	75	97	89
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05

Client Sample ID			TP28-0.0-0.1	TP29-0.0-0.2	TP30-0.0-0.2	TP31-0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38512	S21-Oc38513	S21-Oc38514	S21-Oc38515
Date Sampled			Oct 08, 2021	Oct 08, 2021	Oct 08, 2021	Oct 08, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Dibutylchlorodate (surr.)	1	%	-	86	100	103
Tetrachloro-m-xylene (surr.)	1	%	-	80	94	88
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Dibutylchlorodate (surr.)	1	%	-	86	100	103
Tetrachloro-m-xylene (surr.)	1	%	-	80	94	88
Heavy Metals						
Arsenic	2	mg/kg	6.5	9.1	9.0	21
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	14	16	18	20
Copper	5	mg/kg	32	47	46	46
Lead	5	mg/kg	20	21	26	26
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	15	22	20	27
Zinc	5	mg/kg	84	93	79	110
Other Parameters						
% Moisture	1	%	8.9	5.4	4.4	7.8
Ammonia (as N)	5	mg/kg	-	1600	3100	< 5
Nitrate & Nitrite (as N)	5	mg/kg	-	1200	2400	< 5
Nitrate (as N)	5	mg/kg	-	1200	2400	< 5
Nitrite (as N)	5	mg/kg	-	< 5	< 5	< 5
Total Kjeldahl Nitrogen (as N)	10	mg/kg	-	3200	4600	510
Total Nitrogen (as N)*	10	mg/kg	-	4400	7000	510
Phosphorus	5	mg/kg	-	1800	490	1000

Client Sample ID			TP32-0.0-0.2	TP33-0.0-0.1	TP34-0.0-0.2	TP35-0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38516	S21-Oc38517	S21-Oc38518	S21-Oc38519
Date Sampled			Oct 08, 2021	Oct 08, 2021	Oct 08, 2021	Oct 08, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	66	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	110	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	176	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	140	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	140	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	97	82	108	103
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	104	81	109	93
p-Terphenyl-d14 (surr.)	1	%	88	65	76	66
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	-	-

Client Sample ID			TP32-0.0-0.2	TP33-0.0-0.1	TP34-0.0-0.2	TP35-0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38516	S21-Oc38517	S21-Oc38518	S21-Oc38519
Date Sampled			Oct 08, 2021	Oct 08, 2021	Oct 08, 2021	Oct 08, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
a-HCH	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-HCH	0.05	mg/kg	-	< 0.05	-	-
d-HCH	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	0.5	mg/kg	-	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchloroendate (surr.)	1	%	-	103	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	83	-	-
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	-	-
Dibutylchloroendate (surr.)	1	%	-	103	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	83	-	-
Heavy Metals						
Arsenic	2	mg/kg	11	11	9.5	9.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	23	26	19	23
Copper	5	mg/kg	49	39	37	26
Lead	5	mg/kg	28	30	25	26
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	24	21	16	18
Zinc	5	mg/kg	110	79	79	59
% Moisture	1	%	12	17	14	23

Client Sample ID			TP36-0.0-0.1	TP37-0.0-0.1	TP38-0.0-0.2	TP39-0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38520	S21-Oc38521	S21-Oc38522	S21-Oc38523
Date Sampled			Oct 08, 2021	Oct 08, 2021	Oct 08, 2021	Oct 08, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	55	< 50	< 50	83
TRH C29-C36	50	mg/kg	140	74	91	230
TRH C10-C36 (Total)	50	mg/kg	195	74	91	313
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	160	< 100	< 100	260
TRH >C34-C40	100	mg/kg	120	< 100	100	140
TRH >C10-C40 (total)*	100	mg/kg	280	< 100	100	400
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	100	105	99	103
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	92	112	108	107
p-Terphenyl-d14 (surr.)	1	%	66	80	71	91
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	-	-	-

Client Sample ID			TP36-0.0-0.1	TP37-0.0-0.1	TP38-0.0-0.2	TP39-0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38520	S21-Oc38521	S21-Oc38522	S21-Oc38523
Date Sampled			Oct 08, 2021	Oct 08, 2021	Oct 08, 2021	Oct 08, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
a-HCH	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-HCH	0.05	mg/kg	< 0.05	-	-	-
d-HCH	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.05	mg/kg	< 0.05	-	-	-
Toxaphene	0.5	mg/kg	< 0.5	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchloroendate (surr.)	1	%	103	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	86	-	-	-
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	-	-	-
Dibutylchloroendate (surr.)	1	%	103	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	86	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	6.6	4.0	8.3	2.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	17	9.7	17	7.9
Copper	5	mg/kg	68	20	46	44
Lead	5	mg/kg	18	9.4	20	8.9
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	19	6.3	20	6.6
Zinc	5	mg/kg	280	26	90	200
% Moisture	1	%	18	10	9.5	19

Client Sample ID			TP40-0.0-0.1	SAL01-0.5	SAL01-1.0	SAL01-1.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38524	S21-Oc38525	S21-Oc38526	S21-Oc38527
Date Sampled			Oct 08, 2021	Oct 08, 2021	Oct 08, 2021	Oct 08, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	< 50	-	-	-
TRH C29-C36	50	mg/kg	61	-	-	-
TRH C10-C36 (Total)	50	mg/kg	61	-	-	-
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-	-
TRH >C34-C40	100	mg/kg	< 100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	107	-	-	-
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	%	82	-	-	-
p-Terphenyl-d14 (surr.)	1	%	50	-	-	-
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	-	-	-

Client Sample ID			TP40-0.0-0.1	SAL01-0.5	SAL01-1.0	SAL01-1.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38524	S21-Oc38525	S21-Oc38526	S21-Oc38527
Date Sampled			Oct 08, 2021	Oct 08, 2021	Oct 08, 2021	Oct 08, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
a-HCH	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-HCH	0.05	mg/kg	< 0.05	-	-	-
d-HCH	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.05	mg/kg	< 0.05	-	-	-
Toxaphene	0.5	mg/kg	< 0.5	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchloroendate (surr.)	1	%	79	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	83	-	-	-
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	-	-	-
Dibutylchloroendate (surr.)	1	%	79	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	83	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	12	-	-	-
Cadmium	0.4	mg/kg	< 0.4	-	-	-
Chromium	5	mg/kg	24	-	-	-
Copper	5	mg/kg	23	-	-	-
Lead	5	mg/kg	28	-	-	-
Mercury	0.1	mg/kg	< 0.1	-	-	-
Nickel	5	mg/kg	11	-	-	-
Zinc	5	mg/kg	59	-	-	-
% Moisture	1	%	9.1	13	13	16
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	280	250	280
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	5.0	6.9	7.5

Client Sample ID			SAL01-2.0	SAL02-0.5	SAL02-1.0	SAL02-1.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38528	S21-Oc38529	S21-Oc38530	S21-Oc38531
Date Sampled			Oct 08, 2021	Oct 08, 2021	Oct 08, 2021	Oct 08, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	13	14	12	14
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	260	290	230	300
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	8.7	5.1	6.7	7.8
Chloride	10	mg/kg	440	-	-	500
Resistivity*	0.5	ohm.m	38	-	-	33
Sulphate (as SO4)	10	mg/kg	42	-	-	31
Exchangeable Sodium Percentage (ESP)	0.1	%	28	-	-	22
Magnesium (exchangeable)	0.1	meq/100g	8.0	-	-	6.4
Potassium (exchangeable)	0.1	meq/100g	0.3	-	-	0.2
Sodium (exchangeable)	0.1	meq/100g	5.4	-	-	4.0
Cation Exchange Capacity						
Calcium (exchangeable)	0.1	meq/100g	5.7	-	-	7.7
Cation Exchange Capacity	0.05	meq/100g	19	-	-	18

Client Sample ID			SAL02-2.0	SAL03-0.5	SAL03-1.0	SAL03-1.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38532	S21-Oc38533	S21-Oc38534	S21-Oc38535
Date Sampled			Oct 08, 2021	Oct 08, 2021	Oct 08, 2021	Oct 08, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	12	14	13	14
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	150	250	250	280
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	9.0	5.0	6.9	7.7

Client Sample ID			SAL03-2.0	SAL03-2.5	SAL04-0.5	SAL04-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38536	S21-Oc38537	S21-Oc38538	S21-Oc38539
Date Sampled			Oct 08, 2021	Oct 08, 2021	Oct 08, 2021	Oct 08, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	14	11	12	13
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	280	200	67	55
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	7.4	8.8	5.8	5.6
Chloride	10	mg/kg	-	280	-	-
Resistivity*	0.5	ohm.m	-	50	-	-
Sulphate (as SO4)	10	mg/kg	-	26	-	-
Exchangeable Sodium Percentage (ESP)	0.1	%	-	14	-	-
Magnesium (exchangeable)	0.1	meq/100g	-	9.1	-	-
Potassium (exchangeable)	0.1	meq/100g	-	0.3	-	-
Sodium (exchangeable)	0.1	meq/100g	-	5.0	-	-
Cation Exchange Capacity						
Calcium (exchangeable)	0.1	meq/100g	-	22	-	-
Cation Exchange Capacity	0.05	meq/100g	-	37	-	-

Client Sample ID			SAL04-1.5	SAL04-2.0	SAL05-0.5	SAL05-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38540	S21-Oc38541	S21-Oc38542	S21-Oc38543
Date Sampled			Oct 08, 2021	Oct 08, 2021	Oct 08, 2021	Oct 08, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	13	14	13	13
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	73	60	64	53
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	7.0	7.3	5.6	5.6
Chloride	10	mg/kg	79	-	-	-
Resistivity*	0.5	ohm.m	140	-	-	-
Sulphate (as SO4)	10	mg/kg	18	-	-	-
Exchangeable Sodium Percentage (ESP)	0.1	%	34	-	-	-
Magnesium (exchangeable)	0.1	meq/100g	8.6	-	-	-
Potassium (exchangeable)	0.1	meq/100g	0.2	-	-	-
Sodium (exchangeable)	0.1	meq/100g	4.9	-	-	-
Cation Exchange Capacity						
Calcium (exchangeable)	0.1	meq/100g	0.7	-	-	-
Cation Exchange Capacity	0.05	meq/100g	14	-	-	-

Client Sample ID			SAL05-1.5	SAL05-2.0	DR02 0.2-0.4	TP47 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38544	S21-Oc38545	S21-Oc38572	S21-Oc38620
Date Sampled			Oct 08, 2021	Oct 08, 2021	Oct 06, 2021	Oct 12, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	< 20	< 20
TRH C10-C14	20	mg/kg	-	-	< 20	< 20
TRH C15-C28	50	mg/kg	-	-	61	870
TRH C29-C36	50	mg/kg	-	-	< 50	300
TRH C10-C36 (Total)	50	mg/kg	-	-	61	1170
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	1000
TRH >C34-C40	100	mg/kg	-	-	< 100	180
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	1180
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	-	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	-	-	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	77	118
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

Client Sample ID			SAL05-1.5	SAL05-2.0	DR02 0.2-0.4	TP47 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Oc38544	S21-Oc38545	S21-Oc38572	S21-Oc38620
Date Sampled			Oct 08, 2021	Oct 08, 2021	Oct 06, 2021	Oct 12, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	-	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	-	101	76
p-Terphenyl-d14 (surr.)	1	%	-	-	81	80
Heavy Metals						
Arsenic	2	mg/kg	-	-	11	9.5
Cadmium	0.4	mg/kg	-	-	< 0.4	< 0.4
Chromium	5	mg/kg	-	-	23	29
Copper	5	mg/kg	-	-	34	29
Lead	5	mg/kg	-	-	40	21
Mercury	0.1	mg/kg	-	-	< 0.1	< 0.1
Nickel	5	mg/kg	-	-	14	25
Zinc	5	mg/kg	-	-	58	120
Physical Properties						
% Moisture	1	%	15	14	14	13
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	52	67	-	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	7.0	6.3	-	-
Chloride	10	mg/kg	-	61	-	-
Resistivity*	0.5	ohm.m	-	150	-	-
Sulphate (as SO4)	10	mg/kg	-	12	-	-
Exchangeable Sodium Percentage (ESP)	0.1	%	-	37	-	-
Magnesium (exchangeable)	0.1	meq/100g	-	11	-	-
Potassium (exchangeable)	0.1	meq/100g	-	0.4	-	-
Sodium (exchangeable)	0.1	meq/100g	-	8.4	-	-
Cation Exchange Capacity						
Calcium (exchangeable)	0.1	meq/100g	-	2.5	-	-
Cation Exchange Capacity	0.05	meq/100g	-	22	-	-

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Oct 27, 2021	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Oct 27, 2021	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Oct 27, 2021	14 Days
BTEX - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Oct 27, 2021	14 Days
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Sydney	Oct 27, 2021	14 Days
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Sydney	Oct 27, 2021	28 Days
Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water	Sydney	Oct 27, 2021	14 Days
Polychlorinated Biphenyls - Method: LTM-ORG-2220 OCP & PCB in Soil and Water	Sydney	Oct 27, 2021	28 Days
Heavy Metals - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Sydney	Nov 18, 2021	28 Days
% Moisture - Method: LTM-GEN-7080 Moisture	Sydney	Oct 22, 2021	14 Days
Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, Total P			
Ammonia (as N) - Method: APHA 4500-NH3 Ammonia Nitrogen by FIA	Melbourne	Oct 28, 2021	28 Days
Nitrate & Nitrite (as N) - Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA	Melbourne	Oct 28, 2021	28 Days
Nitrate (as N) - Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA	Melbourne	Oct 28, 2021	28 Days
Nitrite (as N) - Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA	Melbourne	Oct 28, 2021	28 Days
Total Kjeldahl Nitrogen (as N) - Method: APHA 4500-Norg B,D Total Kjeldahl Nitrogen by FIA	Melbourne	Oct 28, 2021	28 Days
Phosphorus - Method: LTM-MET-3010 Alkali Metals Sulfur Silicon and Phosphorus by ICP-AES	Melbourne	Oct 28, 2021	180 Days
Conductivity (1:5 aqueous extract at 25°C as rec.) - Method: LTM-INO-4030 Conductivity	Sydney	Oct 27, 2021	7 Days
Magnesium (exchangeable) - Method: LTM-MET-3060 Cation Exchange Capacity and ESP	Melbourne	Oct 29, 2021	180 Days
Potassium (exchangeable) - Method: LTM-MET-3060 Cation Exchange Capacity and ESP	Melbourne	Oct 29, 2021	180 Days
Sodium (exchangeable) - Method: LTM-MET-3060 Cation Exchange Capacity and ESP	Melbourne	Oct 29, 2021	180 Days
Cation Exchange Capacity - Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage	Melbourne	Oct 29, 2021	28 Days
pH (1:5 Aqueous extract at 25°C as rec.) - Method: LTM-GEN-7090 pH by ISE	Sydney	Oct 27, 2021	7 Days
Chloride - Method: In-house method LTM-INO-4270 Anions by Ion Chromatography	Sydney	Oct 27, 2021	28 Days
Sulphate (as SO4) - Method: In-house method LTM-INO-4270 Sulphate by Ion Chromatograph	Sydney	Oct 27, 2021	28 Days
Exchangeable Sodium Percentage (ESP) - Method: LTM-MET-3060 - Cation Exchange Capacity (CEC) & Exchangeable Sodium Percentage (ESP)	Melbourne	Oct 29, 2021	28 Days

Company Name:	Alliance Geotechnical	Order No.:		Received:	Oct 18, 2021 3:41 PM
Address:	10 Welder Road Seven Hills NSW 2147	Report #:	833263	Due:	Oct 25, 2021
Project Name:	KEMPS CREEK	Phone:	1800 288 188	Priority:	5 Day
Project ID:	13546	Fax:	02 9675 1888	Contact Name:	Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Arsenic	Cadmium	CANCELLED	Conductivity (1:5 aqueous extract at 25°C as rec.)	Copper	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	BTEX	Suite B13: OCP/PCB	Aggressivity Soil Set	Eurofins Suite B20	Moisture Set	Eurofins Suite B7	Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, Total P	BTEX	
Melbourne Laboratory - NATA # 1261 Site # 1254															X	X	X		X		
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X			X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																					
Mayfield Laboratory - NATA # 1261 Site # 25079																					
Perth Laboratory - NATA # 2377 Site # 2370																					
External Laboratory																					
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID																
1	TP01 0.0-0.2	Oct 06, 2021		Soil	S21-Oc38427									X			X	X			
2	TP02 0.0-0.2	Oct 06, 2021		Soil	S21-Oc38428												X	X			
3	TP03 0.0-0.2	Oct 06, 2021		Soil	S21-Oc38429												X	X			
4	TP04 0.0-0.1	Oct 06, 2021		Soil	S21-Oc38430									X			X	X	X		
5	TP05 0.0-0.1	Oct 06, 2021		Soil	S21-Oc38431									X			X	X	X		
6	TP06 0.0-0.2	Oct 06, 2021		Soil	S21-Oc38432									X			X	X	X		
7	TP07 0.0-0.2	Oct 06, 2021		Soil	S21-Oc38433												X	X			
8	TP08 0.0-0.2	Oct 06, 2021		Soil	S21-Oc38434												X	X			
9	TP09 0.0-0.2	Oct 06, 2021		Soil	S21-Oc38435									X			X	X			

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Received: Oct 18, 2021 3:41 PM
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Contact Name: Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

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Melbourne Laboratory - NATA # 1261 Site # 1254															X	X	X		X		
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X			X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																					
Mayfield Laboratory - NATA # 1261 Site # 25079																					
Perth Laboratory - NATA # 2377 Site # 2370																					
External Laboratory																					
10	TP10 0.0-0.2	Oct 06, 2021		Soil	S21-Oc38436												X	X			
11	TP11 0.0-0.1	Oct 06, 2021		Soil	S21-Oc38437									X			X	X	X		
12	TP12 0.0-0.1	Oct 06, 2021		Soil	S21-Oc38438									X			X	X	X		
13	TP14 0.0-0.2	Oct 06, 2021		Soil	S21-Oc38439												X	X			
14	TP15 0.0-0.2	Oct 06, 2021		Soil	S21-Oc38440									X			X	X			
15	TP16 0.0-0.2	Oct 06, 2021		Soil	S21-Oc38441												X	X			
16	TP17 0.0-0.2	Oct 06, 2021		Soil	S21-Oc38442												X	X			
17	TP18 0.0-0.2	Oct 06, 2021		Soil	S21-Oc38443												X	X			
18	TP19 0.0-0.1	Oct 07, 2021		Soil	S21-Oc38444									X			X	X	X		
19	TP20 0.0-0.1	Oct 07, 2021		Soil	S21-Oc38445									X			X	X	X		
20	TP21 0.0-0.2	Oct 07, 2021		Soil	S21-Oc38446									X			X	X	X		

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Melbourne Laboratory - NATA # 1261 Site # 1254															X	X	X		X		
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X			X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																					
Mayfield Laboratory - NATA # 1261 Site # 25079																					
Perth Laboratory - NATA # 2377 Site # 2370																					
External Laboratory																					
21	TP22 0.0-0.1	Oct 06, 2021		Soil	S21-Oc38447									X			X	X			
22	TP23 0.0-0.1	Oct 07, 2021		Soil	S21-Oc38448												X	X			
23	TP24 0.0-0.1	Oct 07, 2021		Soil	S21-Oc38449												X	X			
24	TP25 0.0-0.1	Oct 07, 2021		Soil	S21-Oc38450									X			X	X			
25	TP26 1.0-1.2	Oct 07, 2021		Soil	S21-Oc38451												X	X			
26	DR01 0.0-0.2	Oct 06, 2021		Soil	S21-Oc38452												X	X			
27	DR02 0.0-0.2	Oct 06, 2021		Soil	S21-Oc38453												X	X			
28	DR03 0.0-0.2	Oct 06, 2021		Soil	S21-Oc38454												X	X			
29	DR04 0.0-0.1	Oct 07, 2021		Soil	S21-Oc38455												X	X			
30	DR05 0.0-0.1	Oct 07, 2021		Soil	S21-Oc38456												X	X			
31	DR06 0.0-0.1	Oct 07, 2021		Soil	S21-Oc38457												X	X			

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Melbourne Laboratory - NATA # 1261 Site # 1254															X	X	X		X		
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X			X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																					
Mayfield Laboratory - NATA # 1261 Site # 25079																					
Perth Laboratory - NATA # 2377 Site # 2370																					
External Laboratory																					
32	DR07 0.0-0.1	Oct 07, 2021		Soil	S21-Oc38458												X	X			
33	DR08 0.0-0.1	Oct 07, 2021		Soil	S21-Oc38459												X	X			
34	SP1-1	Oct 07, 2021		Soil	S21-Oc38460									X			X	X	X		
35	SP1-2	Oct 07, 2021		Soil	S21-Oc38461									X			X	X	X		
36	SP1-3	Oct 07, 2021		Soil	S21-Oc38462									X			X	X	X		
37	DS01	Oct 07, 2021		Soil	S21-Oc38463									X			X	X	X		
38	DS02	Oct 07, 2021		Soil	S21-Oc38464									X			X	X	X		
39	DS03	Oct 07, 2021		Soil	S21-Oc38465												X	X			
40	DS04	Oct 07, 2021		Soil	S21-Oc38466												X	X			
41	DS05	Oct 07, 2021		Soil	S21-Oc38467												X	X			
42	DS06	Oct 07, 2021		Soil	S21-Oc38468												X	X			

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Melbourne Laboratory - NATA # 1261 Site # 1254															X	X	X		X		
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X			X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																					
Mayfield Laboratory - NATA # 1261 Site # 25079																					
Perth Laboratory - NATA # 2377 Site # 2370																					
External Laboratory																					
43	SW01	Oct 07, 2021		Water	S21-Oc38469									X				X			
44	SW02	Oct 07, 2021		Water	S21-Oc38470									X				X			
45	SW03	Oct 07, 2021		Water	S21-Oc38471									X				X			
46	SW04	Oct 07, 2021		Water	S21-Oc38472									X				X			
47	SW05	Oct 07, 2021		Water	S21-Oc38473									X				X			
48	SW06	Oct 07, 2021		Water	S21-Oc38474									X				X			
49	BD1	Oct 07, 2021		Soil	S21-Oc38475												X	X			
50	BD2	Oct 07, 2021		Soil	S21-Oc38476									X			X				
51	TRIP BLANK 1	Oct 07, 2021		Soil	S21-Oc38477								X								
52	TRIP BLANK 2	Oct 07, 2021		Soil	S21-Oc38478								X								
53	TRIP BLANK 3	Oct 07, 2021		Soil	S21-Oc38479								X								

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Melbourne Laboratory - NATA # 1261 Site # 1254															X	X	X		X		
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																					
Mayfield Laboratory - NATA # 1261 Site # 25079																					
Perth Laboratory - NATA # 2377 Site # 2370																					
External Laboratory																					
54	TRIP BLANK 4	Oct 07, 2021		Soil	S21-Oc38480								X								
55	TRIP BLANK 5	Oct 07, 2021		Soil	S21-Oc38481								X								
56	TRIP SPIKE 1	Oct 07, 2021		Soil	S21-Oc38482															X	
57	TRIP SPIKE 2	Oct 07, 2021		Soil	S21-Oc38483															X	
58	TRIP SPIKE 3	Oct 07, 2021		Soil	S21-Oc38484															X	
59	TRIP SPIKE 4	Oct 07, 2021		Soil	S21-Oc38485															X	
60	TRIP SPIKE 5	Oct 07, 2021		Soil	S21-Oc38486															X	
61	BD3	Mar 12, 2021		Soil	S21-Oc38492												X	X			
62	PP2 0.0-0.1	Aug 13, 2021		Soil	S21-Oc38493	X	X			X							X				
63	PP3 0.0-0.1	Aug 13, 2021		Soil	S21-Oc38494	X	X			X							X				
64	PP4 0.0-0.1	Aug 12, 2021		Soil	S21-Oc38495	X	X			X							X				

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Melbourne Laboratory - NATA # 1261 Site # 1254												X	X	X			X	
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X		X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																		
Mayfield Laboratory - NATA # 1261 Site # 25079																		
Perth Laboratory - NATA # 2377 Site # 2370																		
External Laboratory																		
65	PP5 0.0-0.1	Oct 13, 2021		Soil	S21-Oc38496	X	X							X				
66	PP6 0.0-0.1	Oct 12, 2021		Soil	S21-Oc38497	X	X							X				
67	PP7 0.0-0.1	Oct 12, 2021		Soil	S21-Oc38498	X	X							X				
68	PP8 0.0-0.1	Oct 12, 2021		Soil	S21-Oc38499	X	X							X				
69	DR11 0.0-0.1	Oct 13, 2021		Soil	S21-Oc38500									X	X			
70	DR12 0.0-0.1	Oct 13, 2021		Soil	S21-Oc38501									X	X			
71	DR13 0.0-0.1	Oct 13, 2021		Soil	S21-Oc38502									X	X			
72	DR14 0.0-0.1	Oct 13, 2021		Soil	S21-Oc38503									X	X			
73	DS07	Oct 13, 2021		Soil	S21-Oc38504							X		X	X			
74	DS08	Oct 13, 2021		Soil	S21-Oc38505							X		X	X			
75	DS09	Oct 13, 2021		Soil	S21-Oc38506							X		X	X			

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Melbourne Laboratory - NATA # 1261 Site # 1254															X	X	X		X		
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X		X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																					
Mayfield Laboratory - NATA # 1261 Site # 25079																					
Perth Laboratory - NATA # 2377 Site # 2370																					
External Laboratory																					
76	DS10	Oct 13, 2021		Soil	S21-Oc38507									X			X	X			
77	SW07	Oct 13, 2021		Water	S21-Oc38508									X				X			
78	SW08	Oct 13, 2021		Water	S21-Oc38509									X				X			
79	TP13-0.0-0.2	Oct 08, 2021		Soil	S21-Oc38510												X	X	X		
80	TP27-0.0-0.2	Oct 08, 2021		Soil	S21-Oc38511												X	X			
81	TP28-0.0-0.1	Oct 08, 2021		Soil	S21-Oc38512												X	X			
82	TP29-0.0-0.2	Oct 08, 2021		Soil	S21-Oc38513									X			X	X	X		
83	TP30-0.0-0.2	Oct 08, 2021		Soil	S21-Oc38514									X			X	X	X		
84	TP31-0.0-0.2	Oct 08, 2021		Soil	S21-Oc38515									X			X	X	X		
85	TP32-0.0-0.2	Oct 08, 2021		Soil	S21-Oc38516												X	X			
86	TP33-0.0-0.1	Oct 08, 2021		Soil	S21-Oc38517									X			X	X			

ABN: 50 005 085 521

ABN: 91 05 0159 898

NZBN: 9429046024954

Melbourne
6 Monterey Road
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Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

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16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
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Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Perth
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Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

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Penrose, Auckland 1061
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IANZ # 1327

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

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Melbourne Laboratory - NATA # 1261 Site # 1254															X	X	X		X		
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X			X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																					
Mayfield Laboratory - NATA # 1261 Site # 25079																					
Perth Laboratory - NATA # 2377 Site # 2370																					
External Laboratory																					
87	TP34-0.0-0.2	Oct 08, 2021		Soil	S21-Oc38518												X	X			
88	TP35-0.0-0.2	Oct 08, 2021		Soil	S21-Oc38519												X	X			
89	TP36-0.0-0.1	Oct 08, 2021		Soil	S21-Oc38520								X				X	X			
90	TP37-0.0-0.1	Oct 08, 2021		Soil	S21-Oc38521												X	X			
91	TP38-0.0-0.2	Oct 08, 2021		Soil	S21-Oc38522												X	X			
92	TP39-0.0-0.1	Oct 08, 2021		Soil	S21-Oc38523												X	X			
93	TP40-0.0-0.1	Oct 08, 2021		Soil	S21-Oc38524								X				X	X			
94	SAL01-0.5	Oct 08, 2021		Soil	S21-Oc38525			X			X						X				
95	SAL01-1.0	Oct 08, 2021		Soil	S21-Oc38526			X			X						X				
96	SAL01-1.5	Oct 08, 2021		Soil	S21-Oc38527			X			X						X				
97	SAL01-2.0	Oct 08, 2021		Soil	S21-Oc38528									X	X	X					

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Sample Detail				Arsenic	Cadmium	CANCELLED	Conductivity (1:5 aqueous extract at 25°C as rec.)	Copper	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	BTEX	Suite B13: OCP/PCB	Aggressivity Soil Set	Eurofins Suite B20	Moisture Set	Eurofins Suite B7	Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, Total P	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254												X	X	X			X	
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X		X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																		
Mayfield Laboratory - NATA # 1261 Site # 25079																		
Perth Laboratory - NATA # 2377 Site # 2370																		
External Laboratory																		
98	SAL02-0.5	Oct 08, 2021					X			X					X			
99	SAL02-1.0	Oct 08, 2021					X			X					X			
100	SAL02-1.5	Oct 08, 2021										X	X	X				
101	SAL02-2.0	Oct 08, 2021					X			X				X				
102	SAL03-0.5	Oct 08, 2021					X			X				X				
103	SAL03-1.0	Oct 08, 2021					X			X				X				
104	SAL03-1.5	Oct 08, 2021					X			X				X				
105	SAL03-2.0	Oct 08, 2021					X			X				X				
106	SAL03-2.5	Oct 08, 2021										X	X	X				
107	SAL04-0.5	Oct 08, 2021					X			X				X				
108	SAL04-1.0	Oct 08, 2021					X			X				X				

ABN: 50 005 085 521

ABN: 91 05 0159 898

NZBN: 9429046024954

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Company Name: Alliance Geotechnical
Address: 10 Welder Road
Seven Hills
NSW 2147

Project Name: KEMPS CREEK
Project ID: 13546

Order No.:
Report #: 833263
Phone: 1800 288 188
Fax: 02 9675 1888

Received: Oct 18, 2021 3:41 PM
Due: Oct 25, 2021
Priority: 5 Day
Contact Name: Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail				Arsenic	Cadmium	CANCELLED	Conductivity (1:5 aqueous extract at 25°C as rec.)	Copper	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	BTEX	Suite B13: OCP/PCB	Aggressivity Soil Set	Eurofins Suite B20	Moisture Set	Eurofins Suite B7	Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, Total P	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254												X	X	X			X	
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X		X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																		
Mayfield Laboratory - NATA # 1261 Site # 25079																		
Perth Laboratory - NATA # 2377 Site # 2370																		
External Laboratory																		
109	SAL04-1.5	Oct 08, 2021											X	X	X			
110	SAL04-2.0	Oct 08, 2021				X			X						X			
111	SAL05-0.5	Oct 08, 2021				X			X						X			
112	SAL05-1.0	Oct 08, 2021				X			X						X			
113	SAL05-1.5	Oct 08, 2021				X			X						X			
114	SAL05-2.0	Oct 08, 2021										X	X	X				
115	TP01 0.4-0.6	Oct 06, 2021							X									
116	TP03 0.4-0.6	Oct 06, 2021							X									
117	TP06 0.8-1.0	Oct 06, 2021							X									
118	TP06 1.0-1.2	Oct 06, 2021							X									
119	TP06 1.2-1.4	Oct 06, 2021							X									

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Melbourne Laboratory - NATA # 1261 Site # 1254												X	X	X			X	
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X		X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																		
Mayfield Laboratory - NATA # 1261 Site # 25079																		
Perth Laboratory - NATA # 2377 Site # 2370																		
External Laboratory																		
120	TP07 0.5-0.7	Oct 06, 2021							X									
121	TP08 0.4-0.6	Oct 06, 2021							X									
122	TP09 0.4-0.6	Oct 06, 2021							X									
123	TP10 0.3-0.4	Oct 06, 2021							X									
124	TP14 0.5-0.7	Oct 06, 2021							X									
125	TP15 0.4-0.4	Oct 06, 2021							X									
126	TP16 0.4-0.6	Oct 06, 2021							X									
127	TP17 0.3-0.5	Oct 06, 2021							X									
128	TP18 0.5-0.7	Oct 06, 2021							X									
129	TP21 1.0-1.2	Oct 07, 2021							X									
130	TP21 1.5-1.5	Oct 07, 2021							X									

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Melbourne Laboratory - NATA # 1261 Site # 1254												X	X	X			X	
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X		X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																		
Mayfield Laboratory - NATA # 1261 Site # 25079																		
Perth Laboratory - NATA # 2377 Site # 2370																		
External Laboratory																		
131	TP22 1.0-1.2	Oct 06, 2021							X									
132	TP22 1.8-2.0	Oct 06, 2021							X									
133	TP23 1.0-1.2	Oct 07, 2021							X									
134	TP23 1.5-1.7	Oct 07, 2021							X									
135	TP24 0.5-0.7	Oct 07, 2021							X									
136	TP25 0.5-0.6	Oct 07, 2021							X									
137	TP26 1.8-2.0	Oct 07, 2021							X									
138	TP26 0.0-0.1	Oct 07, 2021							X									
139	DR01 0.3-0.5	Oct 06, 2021							X									
140	DR01 0.7-0.9	Oct 06, 2021							X									
141	DR02 0.2-0.4	Oct 06, 2021												X	X			

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Melbourne Laboratory - NATA # 1261 Site # 1254												X	X	X			X	
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X		X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																		
Mayfield Laboratory - NATA # 1261 Site # 25079																		
Perth Laboratory - NATA # 2377 Site # 2370																		
External Laboratory																		
142	DR02 0.5-0.7	Oct 06, 2021							X									
143	DR03 0.3-0.5	Oct 06, 2021							X									
144	DR03 0.6-0.8	Oct 06, 2021							X									
145	DR03 1.5-1.7	Oct 06, 2021							X									
146	DR04 0.1-0.2	Oct 07, 2021							X									
147	DR05 0.3-0.4	Oct 07, 2021							X									
148	DR06 0.3-0.5	Oct 07, 2021							X									
149	DR07 0.3-0.5	Oct 07, 2021							X									
150	DR08 0.1-0.2	Oct 07, 2021							X									
151	DW01	Oct 07, 2021							X									
152	DW02	Oct 07, 2021							X									

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Melbourne Laboratory - NATA # 1261 Site # 1254												X	X	X			X	
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X		X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																		
Mayfield Laboratory - NATA # 1261 Site # 25079																		
Perth Laboratory - NATA # 2377 Site # 2370																		
External Laboratory																		
153	DW03	Oct 07, 2021							X									
154	DW04	Oct 07, 2021							X									
155	DW05	Oct 07, 2021							X									
156	DW06	Oct 07, 2021							X									
157	DW07	Oct 07, 2021							X									
158	DW08	Oct 07, 2021							X									
159	PP4 0.5-0.6	Aug 12, 2021							X									
160	PP4 1.0-1.1	Aug 12, 2021							X									
161	PP4 1.5-1.6	Aug 12, 2021							X									
162	PP4 2.0-2.1	Aug 12, 2021							X									
163	PP6 0.5-0.6	Oct 12, 2021							X									

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Melbourne Laboratory - NATA # 1261 Site # 1254												X	X	X			X	
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X		X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																		
Mayfield Laboratory - NATA # 1261 Site # 25079																		
Perth Laboratory - NATA # 2377 Site # 2370																		
External Laboratory																		
164	PP6 1.0-1.1	Oct 12, 2021							X									
165	PP6 1.5-1.6	Oct 12, 2021							X									
166	PP6 2.0-2.1	Oct 12, 2021							X									
167	PP6 2.4-2.5	Oct 12, 2021							X									
168	PP7 0.4-0.5	Oct 12, 2021							X									
169	PP8 0.1-0.2	Oct 12, 2021							X									
170	TP41 0.0-0.1	Oct 12, 2021							X									
171	TP41 0.9-1.0	Oct 12, 2021							X									
172	TP42 0.0-0.1	Oct 12, 2021							X									
173	TP42 1.0-1.1	Oct 12, 2021							X									
174	TP42 1.4-1.5	Oct 12, 2021							X									

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Melbourne Laboratory - NATA # 1261 Site # 1254												X	X	X			X	
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X		X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																		
Mayfield Laboratory - NATA # 1261 Site # 25079																		
Perth Laboratory - NATA # 2377 Site # 2370																		
External Laboratory																		
175	TP43 0.0-0.1	Oct 12, 2021							X									
176	TP43 1.0-1.1	Oct 12, 2021							X									
177	TP43 1.2-1.3	Oct 12, 2021							X									
178	TP44 0.0-0.1	Oct 12, 2021							X									
179	TP44 0.4-0.5	Oct 12, 2021							X									
180	TP44 1.0-1.1	Oct 12, 2021							X									
181	TP44 1.4-1.5	Oct 12, 2021							X									
182	TP44 2.0-2.1	Oct 12, 2021							X									
183	TP44 2.4-2.5	Oct 12, 2021							X									
184	TP45 0.0-0.1	Oct 12, 2021							X									
185	TP45 0.5-0.6	Oct 12, 2021							X									

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Melbourne Laboratory - NATA # 1261 Site # 1254												X	X	X			X	
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X		X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																		
Mayfield Laboratory - NATA # 1261 Site # 25079																		
Perth Laboratory - NATA # 2377 Site # 2370																		
External Laboratory																		
186	TP45 0.7-0.8	Oct 12, 2021							X									
187	TP46 0.0-0.1	Oct 12, 2021							X									
188	TP46 0.3-0.4	Oct 12, 2021							X									
189	TP47 0.0-0.1	Oct 12, 2021												X	X			
190	TP47 0.2-0.3	Oct 12, 2021							X									
191	TP48 0.0-0.1	Oct 12, 2021							X									
192	TP48 0.2-0.3	Oct 12, 2021							X									
193	TP49 0.0-0.1	Oct 12, 2021							X									
194	TP49 0.1-0.2	Oct 12, 2021							X									
195	DR11 0.1-0.2	Oct 13, 2021							X									
196	DR12 0.1-0.2	Oct 13, 2021							X									

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Melbourne Laboratory - NATA # 1261 Site # 1254												X	X	X			X	
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X		X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																		
Mayfield Laboratory - NATA # 1261 Site # 25079																		
Perth Laboratory - NATA # 2377 Site # 2370																		
External Laboratory																		
197	DR13 0.1-0.2	Oct 13, 2021							X									
198	DR14 0.1-0.2	Oct 13, 2021							X									
199	DW09	Oct 13, 2021							X									
200	DW10	Oct 13, 2021							X									
201	DW11	Oct 13, 2021							X									
202	DW12	Oct 13, 2021							X									
203	TP13-0.4-0.6	Oct 08, 2021							X									
204	TP27-1.0-1.2	Oct 08, 2021							X									
205	TP28-0.1-0.3	Oct 08, 2021							X									
206	TP29-0.3-0.5	Oct 08, 2021							X									
207	TP30-0.5-0.7	Oct 08, 2021							X									

ABN: 50 005 085 521

ABN: 91 05 0159 898

NZBN: 9429046024954

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NATA # 1261 Site # 20794

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Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

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NATA # 2377 Site # 2370

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43 Detroit Drive
Rolleston, Christchurch 7675
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Company Name: Alliance Geotechnical
Address: 10 Welder Road
Seven Hills
NSW 2147

Project Name: KEMPS CREEK
Project ID: 13546

Order No.:
Report #: 833263
Phone: 1800 288 188
Fax: 02 9675 1888

Received: Oct 18, 2021 3:41 PM
Due: Oct 25, 2021
Priority: 5 Day
Contact Name: Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail				Arsenic	Cadmium	CANCELLED	Conductivity (1:5 aqueous extract at 25°C as rec.)	Copper	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	BTEX	Suite B13: OCP/PCB	Aggressivity Soil Set	Eurofins Suite B20	Moisture Set	Eurofins Suite B7	Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, Total P	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254												X	X	X			X	
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X		X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																		
Mayfield Laboratory - NATA # 1261 Site # 25079																		
Perth Laboratory - NATA # 2377 Site # 2370																		
External Laboratory																		
208	TP31-1.0-1.2	Oct 08, 2021	Soil						X									
209	TP31-2.0-2.2	Oct 08, 2021	Soil						X									
210	TP32-1.0-1.2	Oct 08, 2021	Soil						X									
211	TP32-1.5-1.7	Oct 08, 2021	Soil						X									
212	TP33-0.1-0.3	Oct 08, 2021	Soil						X									
213	TP34-0.6-0.8	Oct 08, 2021	Soil						X									
214	TP35-0.6-0.8	Oct 08, 2021	Soil						X									
215	TP36-0.1-0.3	Oct 08, 2021	Soil						X									
216	TP37-0.1-0.3	Oct 08, 2021	Soil						X									
217	TP38-0.4-0.6	Oct 08, 2021	Soil						X									
218	TP39-0.1-0.3	Oct 08, 2021	Soil			X												

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Melbourne Laboratory - NATA # 1261 Site # 1254												X	X	X			X	
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X		X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																		
Mayfield Laboratory - NATA # 1261 Site # 25079																		
Perth Laboratory - NATA # 2377 Site # 2370																		
External Laboratory																		
219	TP40-0.1-0.3	Oct 08, 2021							X									
220	TP55-0.0-0.2	Oct 08, 2021							X									
221	TP55-0.3-0.5	Oct 08, 2021							X									
222	TP56-0.0-0.2	Oct 08, 2021							X									
223	TP56-0.7-0.9	Oct 08, 2021							X									
224	TP57-0.1-0.1	Oct 08, 2021							X									
225	TP57-0.1-0.3	Oct 08, 2021							X									
226	TP58-0.0-0.1	Oct 08, 2021							X									
227	TP58-0.1-0.3	Oct 08, 2021				X												
228	TP59-0.0-0.2	Oct 08, 2021							X									
229	TP59-0.7-0.9	Oct 08, 2021							X									

ABN: 50 005 085 521

ABN: 91 05 0159 898

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Contact Name: Jacob Walker

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Sample Detail						Arsenic	Cadmium	CANCELLED	Conductivity (1:5 aqueous extract at 25°C as rec.)	Copper	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	BTEX	Suite B13: OCP/PCB	Aggressivity Soil Set	Eurofins Suite B20	Moisture Set	Eurofins Suite B7	Eurofins Suite B19D: Total N, TKN, NOx, NO2, NO3, Total P	BTEX	
Melbourne Laboratory - NATA # 1261 Site # 1254															X	X	X		X		
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X			X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																					
Mayfield Laboratory - NATA # 1261 Site # 25079																					
Perth Laboratory - NATA # 2377 Site # 2370																					
External Laboratory																					
230	TP60-0.0-0.2	Oct 08, 2021		Soil	S21-Oc38661						X										
231	TP60-0.5-0.7	Oct 08, 2021		Soil	S21-Oc38662						X										
Test Counts						7	7	2	16	7	113	16	5	37	5	5	98	77	17	5	

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram	mg/L: milligrams per litre	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	US Department of Defense Quality Systems Manual Version
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
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

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

Results <10 times the LOR : No Limit

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

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

NOTE: pH duplicates are reported as a range not as RPD

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

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

QC Data General Comments

- 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.
- 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.
- 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.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
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							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4,4'-DDD	mg/kg	< 0.05			0.05	Pass	
4,4'-DDE	mg/kg	< 0.05			0.05	Pass	
4,4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Ammonia (as N)	mg/kg	< 5			5	Pass	
Nitrate & Nitrite (as N)	mg/kg	< 5			5	Pass	
Nitrate (as N)	mg/kg	< 5			5	Pass	
Nitrite (as N)	mg/kg	< 5			5	Pass	
Phosphorus	mg/kg	< 10			10	Pass	
Conductivity (1:5 aqueous extract at 25°C as rec.)	uS/cm	< 10			10	Pass	
Exchangeable Sodium Percentage (ESP)	%	< 0.1			0.1	Pass	
Magnesium (exchangeable)	meq/100g	< 0.1			0.1	Pass	
Potassium (exchangeable)	meq/100g	< 0.1			0.1	Pass	
Sodium (exchangeable)	meq/100g	< 0.1			0.1	Pass	
Method Blank							
Cation Exchange Capacity							
Calcium (exchangeable)	meq/100g	< 0.1			0.1	Pass	
Cation Exchange Capacity	meq/100g	< 0.05			0.05	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	87			70-130	Pass	
TRH C10-C14	%	98			70-130	Pass	
Naphthalene	%	92			70-130	Pass	
TRH C6-C10	%	99			70-130	Pass	
TRH >C10-C16	%	92			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	106			70-130	Pass	
Toluene	%	96			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Ethylbenzene	%	99			70-130	Pass	
m&p-Xylenes	%	101			70-130	Pass	
o-Xylene	%	100			70-130	Pass	
Xylenes - Total*	%	101			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	98			70-130	Pass	
Acenaphthylene	%	98			70-130	Pass	
Anthracene	%	98			70-130	Pass	
Benz(a)anthracene	%	92			70-130	Pass	
Benzo(a)pyrene	%	99			70-130	Pass	
Benzo(b&i)fluoranthene	%	90			70-130	Pass	
Benzo(g,h,i)perylene	%	87			70-130	Pass	
Benzo(k)fluoranthene	%	105			70-130	Pass	
Chrysene	%	94			70-130	Pass	
Dibenz(a,h)anthracene	%	87			70-130	Pass	
Fluoranthene	%	96			70-130	Pass	
Fluorene	%	101			70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	86			70-130	Pass	
Naphthalene	%	95			70-130	Pass	
Phenanthrene	%	99			70-130	Pass	
Pyrene	%	96			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	78			70-130	Pass	
4,4'-DDD	%	77			70-130	Pass	
4,4'-DDE	%	84			70-130	Pass	
4,4'-DDT	%	87			70-130	Pass	
a-HCH	%	79			70-130	Pass	
Aldrin	%	82			70-130	Pass	
b-HCH	%	110			70-130	Pass	
d-HCH	%	78			70-130	Pass	
Dieldrin	%	79			70-130	Pass	
Endosulfan I	%	83			70-130	Pass	
Endosulfan II	%	70			70-130	Pass	
Endosulfan sulphate	%	108			70-130	Pass	
Endrin	%	73			70-130	Pass	
Endrin aldehyde	%	80			70-130	Pass	
Endrin ketone	%	110			70-130	Pass	
g-HCH (Lindane)	%	89			70-130	Pass	
Heptachlor	%	71			70-130	Pass	
Heptachlor epoxide	%	80			70-130	Pass	
Hexachlorobenzene	%	76			70-130	Pass	
Methoxychlor	%	110			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	74			70-130	Pass	
Aroclor-1221	%	86			70-130	Pass	
Aroclor-1260	%	71			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	93			80-120	Pass	
Cadmium	%	96			80-120	Pass	
Chromium	%	92			80-120	Pass	

Test	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code		
Copper	%	90	80-120	Pass			
Lead	%	97	80-120	Pass			
Mercury	%	99	80-120	Pass			
Nickel	%	92	80-120	Pass			
Zinc	%	90	80-120	Pass			
LCS - % Recovery							
Ammonia (as N)	%	105	70-130	Pass			
Nitrate & Nitrite (as N)	%	105	70-130	Pass			
Nitrate (as N)	%	105	70-130	Pass			
Nitrite (as N)	%	105	70-130	Pass			
Phosphorus	%	89	80-120	Pass			
Conductivity (1:5 aqueous extract at 25°C as rec.)	%	93	70-130	Pass			
Resistivity*	%	93	70-130	Pass			
Test	Lab Sample ID	QA Source	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery							
Total Recoverable Hydrocarbons				Result 1			
TRH C10-C14	S21-Oc38427	CP	%	98	70-130	Pass	
TRH >C10-C16	S21-Oc38427	CP	%	97	70-130	Pass	
Spike - % Recovery							
Organochlorine Pesticides				Result 1			
Endosulfan sulphate	S21-Oc44056	NCP	%	92	70-130	Pass	
Spike - % Recovery							
Polychlorinated Biphenyls				Result 1			
Aroclor-1221	S21-Oc44056	NCP	%	98	70-130	Pass	
Spike - % Recovery							
Heavy Metals				Result 1			
Arsenic	S21-Oc38427	CP	%	89	75-125	Pass	
Cadmium	S21-Oc38427	CP	%	98	75-125	Pass	
Chromium	S21-Oc38427	CP	%	105	75-125	Pass	
Copper	S21-Oc38427	CP	%	110	75-125	Pass	
Lead	S21-Oc38427	CP	%	106	75-125	Pass	
Mercury	S21-Oc38427	CP	%	111	75-125	Pass	
Nickel	S21-Oc38427	CP	%	106	75-125	Pass	
Zinc	S21-Oc38427	CP	%	95	75-125	Pass	
Spike - % Recovery							
				Result 1			
Total Kjeldahl Nitrogen (as N)	M21-Oc46724	NCP	%	110	70-130	Pass	
Spike - % Recovery							
				Result 1			
Phosphorus	S21-Oc45948	NCP	%	86	75-125	Pass	
Spike - % Recovery							
Total Recoverable Hydrocarbons				Result 1			
TRH C6-C9	S21-Oc38448	CP	%	77	70-130	Pass	
TRH C10-C14	S21-Oc38448	CP	%	101	70-130	Pass	
Naphthalene	S21-Oc38448	CP	%	86	70-130	Pass	
TRH C6-C10	S21-Oc38448	CP	%	79	70-130	Pass	
TRH >C10-C16	S21-Oc38448	CP	%	98	70-130	Pass	
Spike - % Recovery							
BTEX				Result 1			
Benzene	S21-Oc38448	CP	%	79	70-130	Pass	
Toluene	S21-Oc38448	CP	%	81	70-130	Pass	
Ethylbenzene	S21-Oc38448	CP	%	84	70-130	Pass	
m&p-Xylenes	S21-Oc38448	CP	%	86	70-130	Pass	
o-Xylene	S21-Oc38448	CP	%	87	70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Xylenes - Total*	S21-Oc38448	CP	%	86		70-130	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	S21-Oc38448	CP	%	72		70-130	Pass	
Acenaphthylene	S21-Oc38448	CP	%	73		70-130	Pass	
Benzo(a)pyrene	S21-Oc38448	CP	%	99		70-130	Pass	
Benzo(b&j)fluoranthene	S21-Oc38448	CP	%	88		70-130	Pass	
Benzo(g,h,i)perylene	S21-Oc38448	CP	%	90		70-130	Pass	
Benzo(k)fluoranthene	S21-Oc38448	CP	%	81		70-130	Pass	
Chrysene	S21-Oc38448	CP	%	72		70-130	Pass	
Dibenz(a,h)anthracene	S21-Oc38448	CP	%	81		70-130	Pass	
Fluoranthene	S21-Oc38448	CP	%	76		70-130	Pass	
Fluorene	S21-Oc38448	CP	%	76		70-130	Pass	
Indeno(1,2,3-cd)pyrene	S21-Oc38448	CP	%	80		70-130	Pass	
Phenanthrene	S21-Oc38448	CP	%	74		70-130	Pass	
Pyrene	S21-Oc38448	CP	%	75		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S21-Oc38448	CP	%	110		75-125	Pass	
Cadmium	S21-Oc38448	CP	%	119		75-125	Pass	
Chromium	S21-Oc38448	CP	%	108		75-125	Pass	
Copper	S21-Oc38448	CP	%	96		75-125	Pass	
Nickel	S21-Oc38448	CP	%	89		75-125	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons				Result 1				
TRH C6-C9	S21-Oc38458	CP	%	79		70-130	Pass	
TRH C10-C14	S21-Oc38458	CP	%	82		70-130	Pass	
Naphthalene	S21-Oc38458	CP	%	102		70-130	Pass	
TRH C6-C10	S21-Oc38458	CP	%	80		70-130	Pass	
TRH >C10-C16	S21-Oc38458	CP	%	78		70-130	Pass	
Spike - % Recovery								
BTEX				Result 1				
Benzene	S21-Oc38458	CP	%	79		70-130	Pass	
Toluene	S21-Oc38458	CP	%	86		70-130	Pass	
Ethylbenzene	S21-Oc38458	CP	%	92		70-130	Pass	
m&p-Xylenes	S21-Oc38458	CP	%	95		70-130	Pass	
o-Xylene	S21-Oc38458	CP	%	94		70-130	Pass	
Xylenes - Total*	S21-Oc38458	CP	%	95		70-130	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	S21-Oc38458	CP	%	92		70-130	Pass	
Acenaphthylene	S21-Oc38458	CP	%	89		70-130	Pass	
Anthracene	S21-Oc38458	CP	%	85		70-130	Pass	
Benz(a)anthracene	S21-Oc38458	CP	%	83		70-130	Pass	
Benzo(a)pyrene	S21-Oc38458	CP	%	81		70-130	Pass	
Benzo(b&j)fluoranthene	S21-Oc38458	CP	%	77		70-130	Pass	
Benzo(g,h,i)perylene	S21-Oc38458	CP	%	76		70-130	Pass	
Benzo(k)fluoranthene	S21-Oc38458	CP	%	83		70-130	Pass	
Chrysene	S21-Oc38458	CP	%	92		70-130	Pass	
Dibenz(a,h)anthracene	S21-Oc38458	CP	%	78		70-130	Pass	
Fluoranthene	S21-Oc38458	CP	%	86		70-130	Pass	
Fluorene	S21-Oc38458	CP	%	89		70-130	Pass	
Indeno(1,2,3-cd)pyrene	S21-Oc38458	CP	%	73		70-130	Pass	
Naphthalene	S21-Oc38458	CP	%	95		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Phenanthrene	S21-Oc38458	CP	%	89		70-130	Pass	
Pyrene	S21-Oc38458	CP	%	84		70-130	Pass	
Spike - % Recovery								
Organochlorine Pesticides				Result 1				
4,4'-DDT	S21-Oc38458	CP	%	114		70-130	Pass	
a-HCH	S21-Oc38458	CP	%	74		70-130	Pass	
b-HCH	S21-Oc38458	CP	%	74		70-130	Pass	
Dieldrin	S21-Oc38458	CP	%	78		70-130	Pass	
Endrin	S21-Oc38458	CP	%	107		70-130	Pass	
Endrin ketone	S21-Oc38458	CP	%	105		70-130	Pass	
g-HCH (Lindane)	S21-Oc38458	CP	%	77		70-130	Pass	
Heptachlor	S21-Oc38458	CP	%	77		70-130	Pass	
Heptachlor epoxide	S21-Oc38458	CP	%	74		70-130	Pass	
Hexachlorobenzene	S21-Oc38458	CP	%	77		70-130	Pass	
Spike - % Recovery								
Polychlorinated Biphenyls				Result 1				
Aroclor-1016	S21-Oc38458	CP	%	76		70-130	Pass	
Aroclor-1260	S21-Oc38458	CP	%	84		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S21-Oc38468	CP	%	89		75-125	Pass	
Cadmium	S21-Oc38468	CP	%	97		75-125	Pass	
Chromium	S21-Oc38468	CP	%	89		75-125	Pass	
Copper	S21-Oc38468	CP	%	86		75-125	Pass	
Lead	S21-Oc38468	CP	%	99		75-125	Pass	
Mercury	S21-Oc38468	CP	%	101		75-125	Pass	
Nickel	S21-Oc38468	CP	%	88		75-125	Pass	
Zinc	S21-Oc38468	CP	%	78		75-125	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons				Result 1				
TRH C10-C14	S21-Oc38507	CP	%	95		70-130	Pass	
Naphthalene	S21-Oc38507	CP	%	72		70-130	Pass	
TRH >C10-C16	S21-Oc38507	CP	%	91		70-130	Pass	
Spike - % Recovery								
BTEX				Result 1				
Benzene	S21-Oc38507	CP	%	73		70-130	Pass	
Toluene	S21-Oc38507	CP	%	71		70-130	Pass	
Ethylbenzene	S21-Oc38507	CP	%	72		70-130	Pass	
m&p-Xylenes	S21-Oc38507	CP	%	72		70-130	Pass	
o-Xylene	S21-Oc38507	CP	%	72		70-130	Pass	
Xylenes - Total*	S21-Oc38507	CP	%	72		70-130	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	S21-Oc38507	CP	%	90		70-130	Pass	
Acenaphthylene	S21-Oc38507	CP	%	87		70-130	Pass	
Anthracene	S21-Oc38507	CP	%	84		70-130	Pass	
Benz(a)anthracene	S21-Oc38507	CP	%	81		70-130	Pass	
Benzo(a)pyrene	S21-Oc38507	CP	%	80		70-130	Pass	
Benzo(b&j)fluoranthene	S21-Oc38507	CP	%	78		70-130	Pass	
Benzo(g,h,i)perylene	S21-Oc38507	CP	%	80		70-130	Pass	
Benzo(k)fluoranthene	S21-Oc38507	CP	%	99		70-130	Pass	
Chrysene	S21-Oc38507	CP	%	94		70-130	Pass	
Dibenz(a,h)anthracene	S21-Oc38507	CP	%	72		70-130	Pass	
Fluoranthene	S21-Oc38507	CP	%	82		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Fluorene	S21-Oc38507	CP	%	89		70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-Oc38507	CP	%	70		70-130	Pass	
Naphthalene	S21-Oc38507	CP	%	87		70-130	Pass	
Phenanthrene	S21-Oc38507	CP	%	84		70-130	Pass	
Pyrene	S21-Oc38507	CP	%	78		70-130	Pass	
Spike - % Recovery								
Organochlorine Pesticides				Result 1				
Chlordanes - Total	S21-Oc38507	CP	%	77		70-130	Pass	
4.4'-DDD	S21-Oc38507	CP	%	76		70-130	Pass	
4.4'-DDE	S21-Oc38507	CP	%	85		70-130	Pass	
4.4'-DDT	S21-Oc38507	CP	%	72		70-130	Pass	
a-HCH	S21-Oc38507	CP	%	80		70-130	Pass	
Aldrin	S21-Oc38507	CP	%	78		70-130	Pass	
b-HCH	S21-Oc38507	CP	%	87		70-130	Pass	
d-HCH	S21-Oc38507	CP	%	81		70-130	Pass	
Dieldrin	S21-Oc38507	CP	%	78		70-130	Pass	
Endosulfan I	S21-Oc38507	CP	%	81		70-130	Pass	
Endosulfan II	S21-Oc38507	CP	%	78		70-130	Pass	
Endrin	S21-Oc38507	CP	%	82		70-130	Pass	
Endrin aldehyde	S21-Oc38507	CP	%	71		70-130	Pass	
g-HCH (Lindane)	S21-Oc38507	CP	%	90		70-130	Pass	
Heptachlor	S21-Oc38507	CP	%	70		70-130	Pass	
Heptachlor epoxide	S21-Oc38507	CP	%	80		70-130	Pass	
Hexachlorobenzene	S21-Oc38507	CP	%	75		70-130	Pass	
Methoxychlor	S21-Oc38507	CP	%	116		70-130	Pass	
Spike - % Recovery								
Polychlorinated Biphenyls				Result 1				
Aroclor-1260	S21-Oc38507	CP	%	83		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S21-Oc38507	CP	%	104		75-125	Pass	
Cadmium	S21-Oc38507	CP	%	104		75-125	Pass	
Chromium	S21-Oc38507	CP	%	100		75-125	Pass	
Copper	S21-Oc38507	CP	%	96		75-125	Pass	
Lead	S21-Oc38507	CP	%	109		75-125	Pass	
Mercury	S21-Oc38507	CP	%	108		75-125	Pass	
Nickel	S21-Oc38507	CP	%	91		75-125	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons				Result 1				
TRH C10-C14	S21-Oc38519	CP	%	124		70-130	Pass	
TRH >C10-C16	S21-Oc38519	CP	%	120		70-130	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	S21-Oc38519	CP	%	77		70-130	Pass	
Acenaphthylene	S21-Oc38519	CP	%	78		70-130	Pass	
Anthracene	S21-Oc38519	CP	%	78		70-130	Pass	
Benzo(a)pyrene	S21-Oc38519	CP	%	100		70-130	Pass	
Benzo(b&i)fluoranthene	S21-Oc38519	CP	%	98		70-130	Pass	
Benzo(g,h,i)perylene	S21-Oc38519	CP	%	80		70-130	Pass	
Benzo(k)fluoranthene	S21-Oc38519	CP	%	94		70-130	Pass	
Chrysene	S21-Oc38519	CP	%	79		70-130	Pass	
Dibenz(a,h)anthracene	S21-Oc38519	CP	%	78		70-130	Pass	
Fluoranthene	S21-Oc38519	CP	%	83		70-130	Pass	
Fluorene	S21-Oc38519	CP	%	79		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Indeno(1.2.3-cd)pyrene	S21-Oc38519	CP	%	73			70-130	Pass	
Naphthalene	S21-Oc38519	CP	%	76			70-130	Pass	
Phenanthrene	S21-Oc38519	CP	%	80			70-130	Pass	
Pyrene	S21-Oc38519	CP	%	83			70-130	Pass	
Spike - % Recovery									
				Result 1					
Chloride	S21-Oc38525	CP	%	101			70-130	Pass	
Sulphate (as SO4)	S21-Oc38525	CP	%	92			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S21-Oc38430	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S21-Oc38430	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-Oc38430	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-Oc38430	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Naphthalene	S21-Oc38430	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-Oc38430	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S21-Oc38430	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-Oc38430	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-Oc38430	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-Oc38430	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-Oc38430	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-Oc38430	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-Oc38430	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-Oc38430	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-Oc38430	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Oc38430	CP	%	9.7	9.0	7.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	S21-Oc38437	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-Oc38437	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-Oc38437	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	S21-Oc38437	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-Oc38437	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-Oc38437	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-Oc38437	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Oc38437	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Oc38437	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Oc38437	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Oc38437	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Oc38437	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g,h,i)perylene	S21-Oc38437	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Oc38437	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Oc38437	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,h)anthracene	S21-Oc38437	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Oc38437	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Oc38437	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Oc38437	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Naphthalene	S21-Oc38437	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S21-Oc38437	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S21-Oc38437	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S21-Oc38437	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S21-Oc38437	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S21-Oc38437	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S21-Oc38437	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	S21-Oc38437	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S21-Oc38437	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	S21-Oc38437	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	S21-Oc38437	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S21-Oc38437	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S21-Oc38437	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S21-Oc38437	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S21-Oc38437	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S21-Oc38437	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S21-Oc38437	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S21-Oc38437	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	S21-Oc38437	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S21-Oc38437	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S21-Oc38437	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S21-Oc38437	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S21-Oc38437	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Toxaphene	S21-Oc38437	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Polychlorinated Biphenyls				Result 1	Result 2	RPD		
Aroclor-1016	S21-Oc38437	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1221	S21-Oc38437	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1232	S21-Oc38437	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1242	S21-Oc38437	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1248	S21-Oc38437	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1254	S21-Oc38437	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1260	S21-Oc38437	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Total PCB*	S21-Oc38437	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	S21-Oc38437	CP	%	12	12	6.0	30%	Pass
Ammonia (as N)	S21-Oc38437	CP	mg/kg	1700	1700	<1	30%	Pass
Nitrate & Nitrite (as N)	S21-Oc38437	CP	mg/kg	2000	2100	6.0	30%	Pass
Nitrate (as N)	S21-Oc38437	CP	mg/kg	2000	2100	6.0	30%	Pass
Nitrite (as N)	S21-Oc38437	CP	mg/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C6-C9	S21-Oc38447	CP	mg/kg	< 20	< 20	<1	30%	Pass
Naphthalene	S21-Oc38447	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
TRH C6-C10	S21-Oc38447	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	S21-Oc38447	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Toluene	S21-Oc38447	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Ethylbenzene	S21-Oc38447	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
m&p-Xylenes	S21-Oc38447	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass

Duplicate								
BTEX				Result 1	Result 2	RPD		
o-Xylene	S21-Oc38447	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Xylenes - Total*	S21-Oc38447	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S21-Oc38447	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S21-Oc38447	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S21-Oc38447	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S21-Oc38447	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S21-Oc38447	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S21-Oc38447	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S21-Oc38447	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S21-Oc38447	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S21-Oc38447	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S21-Oc38447	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S21-Oc38447	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S21-Oc38447	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	S21-Oc38447	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S21-Oc38447	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S21-Oc38447	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S21-Oc38447	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S21-Oc38447	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S21-Oc38447	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S21-Oc38447	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S21-Oc38447	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	S21-Oc38447	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S21-Oc38447	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	S21-Oc38447	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	S21-Oc38447	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S21-Oc38447	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S21-Oc38447	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S21-Oc38447	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S21-Oc38447	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S21-Oc38447	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S21-Oc38447	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S21-Oc38447	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	S21-Oc38447	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S21-Oc38447	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S21-Oc38447	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S21-Oc38447	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S21-Oc38447	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Toxaphene	S21-Oc38447	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Polychlorinated Biphenyls				Result 1	Result 2	RPD		
Aroclor-1016	S21-Oc38447	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1221	S21-Oc38447	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1232	S21-Oc38447	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1242	S21-Oc38447	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1248	S21-Oc38447	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1254	S21-Oc38447	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1260	S21-Oc38447	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Total PCB*	S21-Oc38447	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass

Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S21-Oc38447	CP	mg/kg	15	15	6.0	30%	Pass
Cadmium	S21-Oc38447	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S21-Oc38447	CP	mg/kg	19	17	12	30%	Pass
Copper	S21-Oc38447	CP	mg/kg	46	38	18	30%	Pass
Lead	S21-Oc38447	CP	mg/kg	26	30	12	30%	Pass
Mercury	S21-Oc38447	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S21-Oc38447	CP	mg/kg	21	18	18	30%	Pass
Zinc	S21-Oc38447	CP	mg/kg	180	150	17	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	S21-Oc38447	CP	%	16	14	10	30%	Pass
Phosphorus	S21-Oc38447	CP	mg/kg	1500	1300	8.0	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C10-C14	S21-Oc38456	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	S21-Oc38456	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	S21-Oc38456	CP	mg/kg	53	62	15	30%	Pass
TRH >C10-C16	S21-Oc38456	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	S21-Oc38456	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	S21-Oc38456	CP	mg/kg	< 100	110	15	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S21-Oc38456	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S21-Oc38456	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S21-Oc38456	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)anthracene	S21-Oc38456	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S21-Oc38456	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S21-Oc38456	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S21-Oc38456	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S21-Oc38456	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S21-Oc38456	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S21-Oc38456	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S21-Oc38456	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S21-Oc38456	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	S21-Oc38456	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S21-Oc38456	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S21-Oc38456	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S21-Oc38456	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C6-C9	S21-Oc38457	CP	mg/kg	< 20	< 20	<1	30%	Pass
Naphthalene	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
TRH C6-C10	S21-Oc38457	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	S21-Oc38457	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Toluene	S21-Oc38457	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Ethylbenzene	S21-Oc38457	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
m&p-Xylenes	S21-Oc38457	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
o-Xylene	S21-Oc38457	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Xylenes - Total*	S21-Oc38457	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g,h,i)perylene	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,h)anthracene	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1,2,3-cd)pyrene	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S21-Oc38457	CP	mg/kg	< 1	< 1	<1	30%	Pass	
4,4'-DDD	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4,4'-DDE	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4,4'-DDT	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
a-HCH	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aldrin	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
b-HCH	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
d-HCH	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dieldrin	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endosulfan I	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endosulfan II	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endosulfan sulphate	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endrin	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endrin aldehyde	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endrin ketone	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
g-HCH (Lindane)	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Heptachlor	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Heptachlor epoxide	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Hexachlorobenzene	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methoxychlor	S21-Oc38457	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S21-Oc38457	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Aroclor-1221	S21-Oc38457	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Aroclor-1232	S21-Oc38457	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Aroclor-1242	S21-Oc38457	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Aroclor-1248	S21-Oc38457	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Aroclor-1254	S21-Oc38457	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Aroclor-1260	S21-Oc38457	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Oc38457	CP	mg/kg	12	8.0	41	30%	Fail	Q15
Cadmium	S21-Oc38457	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Oc38457	CP	mg/kg	33	29	14	30%	Pass	
Copper	S21-Oc38457	CP	mg/kg	35	41	16	30%	Pass	
Lead	S21-Oc38457	CP	mg/kg	25	25	1.0	30%	Pass	

Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Mercury	S21-Oc38457	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S21-Oc38457	CP	mg/kg	28	34	17	30%	Pass
Zinc	S21-Oc38457	CP	mg/kg	95	86	10	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	S21-Oc38457	CP	%	12	16	28	30%	Pass
Phosphorus	S21-Oc38457	CP	mg/kg	820	730	11	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C10-C14	S21-Oc38467	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	S21-Oc38467	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	S21-Oc38467	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C10-C16	S21-Oc38467	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	S21-Oc38467	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	S21-Oc38467	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S21-Oc38467	CP	mg/kg	9.5	8.1	16	30%	Pass
Cadmium	S21-Oc38467	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S21-Oc38467	CP	mg/kg	21	19	12	30%	Pass
Copper	S21-Oc38467	CP	mg/kg	26	23	12	30%	Pass
Lead	S21-Oc38467	CP	mg/kg	13	12	6.0	30%	Pass
Mercury	S21-Oc38467	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S21-Oc38467	CP	mg/kg	17	15	13	30%	Pass
Zinc	S21-Oc38467	CP	mg/kg	49	46	6.0	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	S21-Oc38467	CP	%	27	29	7.0	30%	Pass
Phosphorus	S21-Oc38467	CP	mg/kg	160	130	20	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	S21-Oc38498	CP	%	7.0	9.0	25	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S21-Oc38499	CP	mg/kg	7.0	6.1	13	30%	Pass
Cadmium	S21-Oc38499	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S21-Oc38499	CP	mg/kg	13	10	20	30%	Pass
Copper	S21-Oc38499	CP	mg/kg	29	23	24	30%	Pass
Lead	S21-Oc38499	CP	mg/kg	21	17	19	30%	Pass
Mercury	S21-Oc38499	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S21-Oc38499	CP	mg/kg	13	11	20	30%	Pass
Zinc	S21-Oc38499	CP	mg/kg	520	380	32	30%	Fail
								Q02
Duplicate								
				Result 1	Result 2	RPD		
Phosphorus	S21-Oc38499	CP	mg/kg	730	550	29	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C6-C9	S21-Oc38506	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C10-C14	S21-Oc38506	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	S21-Oc38506	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	S21-Oc38506	CP	mg/kg	61	< 50	25	30%	Pass
Naphthalene	S21-Oc38506	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
TRH C6-C10	S21-Oc38506	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH >C10-C16	S21-Oc38506	CP	mg/kg	< 50	< 50	<1	30%	Pass

Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH >C16-C34	S21-Oc38506	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	S21-Oc38506	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	S21-Oc38506	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Toluene	S21-Oc38506	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Ethylbenzene	S21-Oc38506	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
m&p-Xylenes	S21-Oc38506	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
o-Xylene	S21-Oc38506	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Xylenes - Total*	S21-Oc38506	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S21-Oc38506	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S21-Oc38506	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S21-Oc38506	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S21-Oc38506	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S21-Oc38506	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S21-Oc38506	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S21-Oc38506	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S21-Oc38506	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S21-Oc38506	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S21-Oc38506	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S21-Oc38506	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S21-Oc38506	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	S21-Oc38506	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S21-Oc38506	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S21-Oc38506	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S21-Oc38506	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S21-Oc38506	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S21-Oc38506	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S21-Oc38506	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S21-Oc38506	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	S21-Oc38506	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S21-Oc38506	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	S21-Oc38506	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	S21-Oc38506	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S21-Oc38506	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S21-Oc38506	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S21-Oc38506	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S21-Oc38506	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S21-Oc38506	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S21-Oc38506	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S21-Oc38506	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	S21-Oc38506	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S21-Oc38506	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S21-Oc38506	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S21-Oc38506	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S21-Oc38506	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Toxaphene	S21-Oc38506	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Polychlorinated Biphenyls				Result 1	Result 2	RPD		
Aroclor-1016	S21-Oc38506	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1221	S21-Oc38506	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1232	S21-Oc38506	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1242	S21-Oc38506	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1248	S21-Oc38506	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1254	S21-Oc38506	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1260	S21-Oc38506	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Total PCB*	S21-Oc38506	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S21-Oc38506	CP	mg/kg	9.1	11	16	30%	Pass
Cadmium	S21-Oc38506	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S21-Oc38506	CP	mg/kg	16	17	10	30%	Pass
Copper	S21-Oc38506	CP	mg/kg	27	27	<1	30%	Pass
Lead	S21-Oc38506	CP	mg/kg	18	19	4.0	30%	Pass
Mercury	S21-Oc38506	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S21-Oc38506	CP	mg/kg	16	17	3.0	30%	Pass
Zinc	S21-Oc38506	CP	mg/kg	59	60	2.0	30%	Pass
Duplicate								
Phosphorus	S21-Oc38506	CP	mg/kg	400	400	<1	30%	Pass
Duplicate								
% Moisture	S21-Oc38510	CP	%	8.7	7.7	13	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S21-Oc38511	CP	mg/kg	9.9	8.4	17	30%	Pass
Cadmium	S21-Oc38511	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S21-Oc38511	CP	mg/kg	20	17	13	30%	Pass
Copper	S21-Oc38511	CP	mg/kg	36	35	3.0	30%	Pass
Lead	S21-Oc38511	CP	mg/kg	25	24	5.0	30%	Pass
Mercury	S21-Oc38511	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S21-Oc38511	CP	mg/kg	21	20	8.0	30%	Pass
Zinc	S21-Oc38511	CP	mg/kg	120	110	4.0	30%	Pass
Duplicate								
Phosphorus	S21-Oc38511	CP	mg/kg	1800	1900	3.0	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C10-C14	S21-Oc38516	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	S21-Oc38516	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	S21-Oc38516	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C10-C16	S21-Oc38516	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	S21-Oc38516	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	S21-Oc38516	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S21-Oc38516	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S21-Oc38516	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S21-Oc38516	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)anthracene	S21-Oc38516	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S21-Oc38516	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S21-Oc38516	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S21-Oc38516	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Benzo(k)fluoranthene	S21-Oc38516	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S21-Oc38516	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S21-Oc38516	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S21-Oc38516	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S21-Oc38516	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1.2.3-cd)pyrene	S21-Oc38516	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S21-Oc38516	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S21-Oc38516	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S21-Oc38516	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S21-Oc38518	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S21-Oc38518	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S21-Oc38518	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)anthracene	S21-Oc38518	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S21-Oc38518	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S21-Oc38518	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S21-Oc38518	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S21-Oc38518	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S21-Oc38518	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S21-Oc38518	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S21-Oc38518	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S21-Oc38518	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1.2.3-cd)pyrene	S21-Oc38518	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S21-Oc38518	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S21-Oc38518	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S21-Oc38518	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
% Moisture	S21-Oc38520	CP	%	18	19	8.0	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Conductivity (1:5 aqueous extract at 25°C as rec.)	S21-Oc38525	CP	uS/cm	280	220	26	30%	Pass
pH (1:5 Aqueous extract at 25°C as rec.)	S21-Oc38525	CP	pH Units	5.0	5.0	<1	30%	Pass
Resistivity*	S21-Oc38525	CP	ohm.m	36	46	26	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Exchangeable Sodium Percentage (ESP)	S21-Oc46965	NCP	%	21	19	11	30%	Pass
Magnesium (exchangeable)	S21-Oc46965	NCP	meq/100g	2.1	2.0	4.0	30%	Pass
Potassium (exchangeable)	S21-Oc46965	NCP	meq/100g	0.1	0.1	3.0	30%	Pass
Sodium (exchangeable)	S21-Oc46965	NCP	meq/100g	0.6	0.5	18	30%	Pass
Duplicate								
Cation Exchange Capacity				Result 1	Result 2	RPD		
Calcium (exchangeable)	S21-Oc46965	NCP	meq/100g	< 0.1	< 0.1	<1	30%	Pass
Cation Exchange Capacity	S21-Oc46965	NCP	meq/100g	2.8	2.6	7.0	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Chloride	S21-Oc38529	CP	mg/kg	440	440	<1	30%	Pass
Sulphate (as SO4)	S21-Oc38529	CP	mg/kg	< 10	< 10	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	S21-Oc38530	CP	%	12	9.9	22	30%	Pass

Duplicate				Result 1	Result 2	RPD		
Conductivity (1:5 aqueous extract at 25°C as rec.)	S21-Oc38535	CP	uS/cm	280	240	16	30%	Pass
pH (1:5 Aqueous extract at 25°C as rec.)	S21-Oc38535	CP	pH Units	7.7	7.7	<1	30%	Pass
Resistivity*	S21-Oc38535	CP	ohm.m	36	42	16	30%	Pass
Duplicate				Result 1	Result 2	RPD		
% Moisture	S21-Oc38540	CP	%	13	14	1.0	30%	Pass
Duplicate				Result 1	Result 2	RPD		
Conductivity (1:5 aqueous extract at 25°C as rec.)	S21-Oc38545	CP	uS/cm	67	60	11	30%	Pass
Resistivity*	S21-Oc38545	CP	ohm.m	150	170	11	30%	Pass

Comments

Microbiological analysis cancelled due to incorrect containers. B19D cancelled on SW01, SW02, SW03 and SW04 due to incorrect containers. Samples TP39-0.1-0.3 and TP58-0.1-0.3 not received. Samples BT1, BT2 and BT3 forwarded to ALS.

V2- new version to import Cr on all "PP" samples for metals as per client request.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	No
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
G01	The LORs have been raised due to matrix interference
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
Q02	The duplicate %RPD is outside the recommended acceptance criteria. Further analysis indicates sample heterogeneity as the cause
Q09	The Surrogate recovery is outside of the recommended acceptance criteria due to matrix interference. Acceptance criteria were met for all other QC
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.
R09	Theoretically the TKN result should be greater or equal to the ammonia concentration. However the difference reported is within the measurement uncertainty of the individual tests

Authorised by:

Andrew Black	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Charl Du Preez	Senior Analyst-Inorganic (NSW)
Scott Beddoes	Senior Analyst-Inorganic (VIC)
John Nguyen	Senior Analyst-Metal (NSW)
Roopesh Rangarajan	Senior Analyst-Volatile (NSW)
Emily Rosenberg	Senior Analyst-Metal (VIC)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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Alliance Geotechnical
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Seven Hills
NSW 2147



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Accreditation Number 1261
Site Number 18217

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 Arrangement for the mutual recognition of the
 equivalence of testing, medical testing, calibration,
 inspection, proficiency testing scheme providers and
 reference materials producers reports and certificates.

Attention: **Jacob Walker**

Report **836977-S**
 Project name **KEMPS CREEK**
 Project ID **13546**
 Received Date **Oct 28, 2021**

Client Sample ID			DS11	DS12	TP50_0.0-0.1	TP51_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02558	S21-No02559	S21-No02560	S21-No02561
Date Sampled			Oct 15, 2021	Oct 15, 2021	Oct 15, 2021	Oct 15, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	55	< 50	52	< 50
TRH C29-C36	50	mg/kg	98	< 50	150	< 50
TRH C10-C36 (Total)	50	mg/kg	153	< 50	202	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	160	< 100	170	110
TRH >C34-C40	100	mg/kg	170	< 100	190	120
TRH >C10-C40 (total)*	100	mg/kg	330	< 100	360	230
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	66	122	117	118
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			DS11	DS12	TP50_0.0-0.1	TP51_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02558	S21-No02559	S21-No02560	S21-No02561
Date Sampled			Oct 15, 2021	Oct 15, 2021	Oct 15, 2021	Oct 15, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	66	71	83	88
p-Terphenyl-d14 (surr.)	1	%	77	74	81	69
Heavy Metals						
Arsenic	2	mg/kg	12	10	11	12
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	26	22	25	31
Copper	5	mg/kg	33	39	42	27
Lead	5	mg/kg	28	26	34	54
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	16	19	20	15
Zinc	5	mg/kg	53	93	170	150
% Moisture						
	1	%	23	31	36	14
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	< 0.05
a-HCH	0.05	mg/kg	-	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	-	-	< 0.05	0.13
b-HCH	0.05	mg/kg	-	-	< 0.05	< 0.05
d-HCH	0.05	mg/kg	-	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	-	-	< 0.05	2.0
Endosulfan I	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	-	-	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	-	-	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	2.13
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	2.13
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	-	-	97	69
Tetrachloro-m-xylene (surr.)	1	%	-	-	95	89

Client Sample ID			DS11	DS12	TP50_0.0-0.1	TP51_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02558	S21-No02559	S21-No02560	S21-No02561
Date Sampled			Oct 15, 2021	Oct 15, 2021	Oct 15, 2021	Oct 15, 2021
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	-	-	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	-	-	97	69
Tetrachloro-m-xylene (surr.)	1	%	-	-	95	89

Client Sample ID			TP52_0.0-0.1	TP52_0.5-0.6	TP52_1.0-1.1	TP52_1.5-1.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02562	S21-No02563	S21-No02564	S21-No02565
Date Sampled			Oct 15, 2021	Oct 15, 2021	Oct 15, 2021	Oct 15, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	< 50	-	-	-
TRH C29-C36	50	mg/kg	89	-	-	-
TRH C10-C36 (Total)	50	mg/kg	89	-	-	-
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-	-
TRH >C34-C40	100	mg/kg	100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	100	-	-	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	127	-	-	-
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	-	-	-

Client Sample ID			TP52_0.0-0.1	TP52_0.5-0.6	TP52_1.0-1.1	TP52_1.5-1.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02562	S21-No02563	S21-No02564	S21-No02565
Date Sampled			Oct 15, 2021	Oct 15, 2021	Oct 15, 2021	Oct 15, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	%	92	-	-	-
p-Terphenyl-d14 (surr.)	1	%	81	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	14	-	-	-
Cadmium	0.4	mg/kg	< 0.4	-	-	-
Chromium	5	mg/kg	17	-	-	-
Copper	5	mg/kg	22	-	-	-
Lead	5	mg/kg	41	-	-	-
Mercury	0.1	mg/kg	< 0.1	-	-	-
Nickel	5	mg/kg	21	-	-	-
Zinc	5	mg/kg	58	-	-	-
Physical Properties						
% Moisture	1	%	19	15	5.0	6.5
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	46	350	660	370
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	6.3	7.7	7.5	8.2
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4,4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4,4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4,4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-HCH	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-HCH	0.05	mg/kg	< 0.05	-	-	-
d-HCH	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.05	mg/kg	< 0.05	-	-	-
Toxaphene	0.5	mg/kg	< 0.5	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-

Client Sample ID			TP52_0.0-0.1	TP52_0.5-0.6	TP52_1.0-1.1	TP52_1.5-1.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02562	S21-No02563	S21-No02564	S21-No02565
Date Sampled			Oct 15, 2021	Oct 15, 2021	Oct 15, 2021	Oct 15, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
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	-	-	-
Dibutylchloroendate (surr.)	1	%	110	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	93	-	-	-
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	-	-	-
Dibutylchloroendate (surr.)	1	%	110	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	93	-	-	-

Client Sample ID			TP52_2.0-2.1	TP52_2.5-2.6	TP53_0.0-0.1	TP54_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02566	S21-No02567	S21-No02568	S21-No02569
Date Sampled			Oct 15, 2021	Oct 15, 2021	Oct 15, 2021	Oct 15, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	< 20	< 20
TRH C10-C14	20	mg/kg	-	-	23	< 20
TRH C15-C28	50	mg/kg	-	-	< 50	< 50
TRH C29-C36	50	mg/kg	-	-	< 50	56
TRH C10-C36 (Total)	50	mg/kg	-	-	< 50	56
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	-	-	110	< 100
TRH >C34-C40	100	mg/kg	-	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	110	< 100
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	-	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	-	-	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	90	65

Client Sample ID			TP52_2.0-2.1	TP52_2.5-2.6	TP53_0.0-0.1	TP54_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02566	S21-No02567	S21-No02568	S21-No02569
Date Sampled			Oct 15, 2021	Oct 15, 2021	Oct 15, 2021	Oct 15, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	1.2
Acenaphthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	-	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	-	87	84
p-Terphenyl-d14 (surr.)	1	%	-	-	81	78
Heavy Metals						
Arsenic	2	mg/kg	-	-	9.1	10
Cadmium	0.4	mg/kg	-	-	< 0.4	< 0.4
Chromium	5	mg/kg	-	-	19	17
Copper	5	mg/kg	-	-	22	25
Lead	5	mg/kg	-	-	25	22
Mercury	0.1	mg/kg	-	-	< 0.1	< 0.1
Nickel	5	mg/kg	-	-	13	14
Zinc	5	mg/kg	-	-	54	69
% Moisture	1	%	8.6	21	24	22
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	380	360	-	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	8.0	7.8	-	-
Chloride	10	mg/kg	-	500	-	-
Resistivity*	0.5	ohm.m	-	28	-	-
Sulphate (as SO4)	10	mg/kg	-	120	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	< 0.05
a-HCH	0.05	mg/kg	-	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
b-HCH	0.05	mg/kg	-	-	< 0.05	< 0.05
d-HCH	0.05	mg/kg	-	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	-	-	< 0.05	< 0.05

Client Sample ID			TP52_2.0-2.1	TP52_2.5-2.6	TP53_0.0-0.1	TP54_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02566	S21-No02567	S21-No02568	S21-No02569
Date Sampled			Oct 15, 2021	Oct 15, 2021	Oct 15, 2021	Oct 15, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endosulfan II	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	-	-	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	-	-	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	< 0.1
Dibutylchlorodate (surr.)	1	%	-	-	106	94
Tetrachloro-m-xylene (surr.)	1	%	-	-	91	87
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
Dibutylchlorodate (surr.)	1	%	-	-	106	94
Tetrachloro-m-xylene (surr.)	1	%	-	-	91	87

Client Sample ID			DS13	DS14	TP61_0.0-0.1	TP62_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02570	S21-No02571	S21-No02574	S21-No02575
Date Sampled			Oct 18, 2021	Oct 18, 2021	Oct 18, 2021	Oct 18, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100

Client Sample ID			DS13	DS14	TP61_0.0-0.1	TP62_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02570	S21-No02571	S21-No02574	S21-No02575
Date Sampled			Oct 18, 2021	Oct 18, 2021	Oct 18, 2021	Oct 18, 2021
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	117	100	89	101
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	64	60	-	-
p-Terphenyl-d14 (surr.)	1	%	66	78	-	-
Heavy Metals						
Arsenic	2	mg/kg	18	30	5.4	17
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	23	35	11	25
Copper	5	mg/kg	20	41	15	32
Lead	5	mg/kg	30	58	16	41
Mercury	0.1	mg/kg	< 0.1	< 0.1	0.6	0.3
Nickel	5	mg/kg	30	25	7.1	16
Zinc	5	mg/kg	79	1000	44	65
% Moisture						
% Moisture	1	%	21	23	9.1	18
Conductivity (1:5 aqueous extract at 25°C as rec.)						
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	-	-	100
pH (1:5 Aqueous extract at 25°C as rec.)						
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	-	-	7.1

Client Sample ID			TP62_0.5-0.6	TP62_1.0-1.1	TP62_1.5-1.6	TP62_2.0-2.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02576	S21-No02577	S21-No02578	S21-No02579
Date Sampled			Oct 18, 2021	Oct 18, 2021	Oct 18, 2021	Oct 18, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	17	10	18	8.5
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	14	52	240	31
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	6.9	7.2	7.5	6.6
Chloride	10	mg/kg	-	-	380	-
Resistivity*	0.5	ohm.m	-	-	42	-
Sulphate (as SO4)	10	mg/kg	-	-	11	-

Client Sample ID			TP62_2.5-2.6	TP64_0.0-0.1	TP65_0.0-0.1	TP66_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02580	S21-No02581	S21-No02582	S21-No02583
Date Sampled			Oct 18, 2021	Oct 18, 2021	Oct 18, 2021	Oct 18, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	-	8.6	7.6	2.7
Chromium	5	mg/kg	-	22	19	5.6
Copper	5	mg/kg	-	39	31	8.0
% Moisture	1	%	17	24	18	13
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	320	-	-	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	7.4	-	-	-

Client Sample ID			BD4	SP3-1	SP3-2	PP9
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02584	S21-No02585	S21-No02586	S21-No02587
Date Sampled			Oct 18, 2021	Oct 18, 2021	Oct 18, 2021	Oct 18, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	-
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	-
TRH C15-C28	50	mg/kg	< 50	68	< 50	-
TRH C29-C36	50	mg/kg	< 50	110	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	178	< 50	-
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	150	< 100	-
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	150	< 100	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-

Client Sample ID			BD4	SP3-1	SP3-2	PP9
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02584	S21-No02585	S21-No02586	S21-No02587
Date Sampled			Oct 18, 2021	Oct 18, 2021	Oct 18, 2021	Oct 18, 2021
Test/Reference	LOR	Unit				
BTEX						
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	118	92	84	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	66	91	85	-
p-Terphenyl-d14 (surr.)	1	%	65	81	79	-
Heavy Metals						
Arsenic	2	mg/kg	11	8.9	8.2	8.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	23	16	16	19
Copper	5	mg/kg	36	30	22	33
Lead	5	mg/kg	28	48	22	-
Mercury	0.1	mg/kg	< 0.1	0.5	< 0.1	-
Nickel	5	mg/kg	20	18	8.4	-
Zinc	5	mg/kg	71	160	28	-
% Moisture						
% Moisture	1	%	18	20	18	17
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	-
a-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
b-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
d-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	-

Client Sample ID			BD4	SP3-1	SP3-2	PP9
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02584	S21-No02585	S21-No02586	S21-No02587
Date Sampled			Oct 18, 2021	Oct 18, 2021	Oct 18, 2021	Oct 18, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	-
Methoxychlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Toxaphene	0.5	mg/kg	-	< 0.5	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-
Dibutylchloroendate (surr.)	1	%	-	68	92	-
Tetrachloro-m-xylene (surr.)	1	%	-	96	93	-
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	-
Dibutylchloroendate (surr.)	1	%	-	68	92	-
Tetrachloro-m-xylene (surr.)	1	%	-	96	93	-

Client Sample ID			DR15 0.0-0.1	PP1	PP10	PP11
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02588	S21-No02589	S21-No02590	S21-No02591
Date Sampled			Oct 18, 2021	Oct 18, 2021	Oct 18, 2021	Oct 18, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	< 50	-	-	-
TRH C29-C36	50	mg/kg	< 50	-	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	-
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-	-
TRH >C34-C40	100	mg/kg	< 100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-

Client Sample ID			DR15 0.0-0.1	PP1	PP10	PP11
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02588	S21-No02589	S21-No02590	S21-No02591
Date Sampled			Oct 18, 2021	Oct 18, 2021	Oct 18, 2021	Oct 18, 2021
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	95	-	-	-
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	%	66	-	-	-
p-Terphenyl-d14 (surr.)	1	%	61	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	9.0	3.7	16	8.0
Cadmium	0.4	mg/kg	< 0.4	-	-	-
Chromium	5	mg/kg	17	7.5	30	17
Copper	5	mg/kg	19	11	47	28
Lead	5	mg/kg	36	-	-	-
Mercury	0.1	mg/kg	< 0.1	-	-	-
Nickel	5	mg/kg	8.6	-	-	-
Zinc	5	mg/kg	71	-	-	-
% Moisture	1	%	14	6.9	16	15

Client Sample ID			PP12	DS15	DS16	TP141_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02592	S21-No02595	S21-No02596	S21-No02597
Date Sampled			Oct 18, 2021	Oct 18, 2021	Oct 18, 2021	Oct 18, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	-	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	-	< 50	< 50	73
TRH C29-C36	50	mg/kg	-	< 50	< 50	58
TRH C10-C36 (Total)	50	mg/kg	-	< 50	< 50	131
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	110
TRH >C34-C40	100	mg/kg	-	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	110
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	103	99	87
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	0.6
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	0.5
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	1.1
2-Fluorobiphenyl (surr.)	1	%	-	76	75	98
p-Terphenyl-d14 (surr.)	1	%	-	71	77	95
Heavy Metals						
Arsenic	2	mg/kg	7.4	14	15	27
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	18	22	22	13
Copper	5	mg/kg	22	24	29	28

Client Sample ID			PP12	DS15	DS16	TP141_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02592	S21-No02595	S21-No02596	S21-No02597
Date Sampled			Oct 18, 2021	Oct 18, 2021	Oct 18, 2021	Oct 18, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Lead	5	mg/kg	-	26	30	160
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	0.2
Nickel	5	mg/kg	-	16	15	15
Zinc	5	mg/kg	-	54	57	180
% Moisture						
	1	%	24	23	26	15
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-HCH	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-HCH	0.05	mg/kg	-	-	-	< 0.05
d-HCH	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	0.13
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.05	mg/kg	-	-	-	< 0.05
Toxaphene	0.5	mg/kg	-	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	0.13
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	0.13
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchloroendate (surr.)	1	%	-	-	-	85
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	107
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
Dibutylchloroendate (surr.)	1	%	-	-	-	85
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	107

Client Sample ID			TP142_0.5-0.6	DR16 0.0-0.1	DR17 0.0-0.1	TP70_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02598	S21-No02599	S21-No02600	S21-No02601
Date Sampled			Oct 18, 2021	Oct 19, 2021	Oct 19, 2021	Oct 19, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	25	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	210	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	250	85	< 50	65
TRH C10-C36 (Total)	50	mg/kg	485	85	< 50	65
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	530	110	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	530	110	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	88	84	98	87
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	96	96	71	-
p-Terphenyl-d14 (surr.)	1	%	94	77	67	-
Heavy Metals						
Arsenic	2	mg/kg	7.0	2.8	4.6	7.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	13	13	13	18
Copper	5	mg/kg	62	8.7	13	32

Client Sample ID			TP142_0.5-0.6	DR16 0.0-0.1	DR17 0.0-0.1	TP70_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02598	S21-No02599	S21-No02600	S21-No02601
Date Sampled			Oct 18, 2021	Oct 19, 2021	Oct 19, 2021	Oct 19, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Lead	5	mg/kg	30	160	24	57
Mercury	0.1	mg/kg	< 0.1	0.1	< 0.1	< 0.1
Nickel	5	mg/kg	7.5	7.6	5.3	16
Zinc	5	mg/kg	73	250	92	110
% Moisture	1	%	32	9.9	8.7	20
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-HCH	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-HCH	0.05	mg/kg	< 0.05	-	-	-
d-HCH	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.05	mg/kg	< 0.05	-	-	-
Toxaphene	0.5	mg/kg	< 0.5	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchloroendate (surr.)	1	%	120	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	97	-	-	-
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	-	-	-
Dibutylchloroendate (surr.)	1	%	120	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	97	-	-	-

Client Sample ID			TP142_0.5-0.6	DR16 0.0-0.1	DR17 0.0-0.1	TP70_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02598	S21-No02599	S21-No02600	S21-No02601
Date Sampled			Oct 18, 2021	Oct 19, 2021	Oct 19, 2021	Oct 19, 2021
Test/Reference	LOR	Unit				
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	-	-	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	-	-	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	-	< 0.5
Allyl chloride	0.5	mg/kg	-	-	-	< 0.5
Benzene	0.1	mg/kg	-	-	-	< 0.1
Bromobenzene	0.5	mg/kg	-	-	-	< 0.5
Bromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromodichloromethane	0.5	mg/kg	-	-	-	< 0.5
Bromoform	0.5	mg/kg	-	-	-	< 0.5
Bromomethane	0.5	mg/kg	-	-	-	< 0.5
Carbon disulfide	0.5	mg/kg	-	-	-	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	-	-	< 0.5
Chlorobenzene	0.5	mg/kg	-	-	-	< 0.5
Chloroethane	0.5	mg/kg	-	-	-	< 0.5
Chloroform	0.5	mg/kg	-	-	-	< 0.5
Chloromethane	0.5	mg/kg	-	-	-	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	-	< 0.5
Dibromochloromethane	0.5	mg/kg	-	-	-	< 0.5
Dibromomethane	0.5	mg/kg	-	-	-	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	-	-	< 0.5
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
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

Client Sample ID			TP142_0.5-0.6	DR16 0.0-0.1	DR17 0.0-0.1	TP70_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02598	S21-No02599	S21-No02600	S21-No02601
Date Sampled			Oct 18, 2021	Oct 19, 2021	Oct 19, 2021	Oct 19, 2021
Test/Reference	LOR	Unit				
Volatile Organics						
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	%	-	-	-	87
Toluene-d8 (surr.)	1	%	-	-	-	90

Client Sample ID			TP71_0.0-0.1	DS17	DS18	DW22
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02602	S21-No02605	S21-No02606	S21-No02607
Date Sampled			Oct 19, 2021	Oct 19, 2021	Oct 19, 2021	Oct 19, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	56	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	56	< 50	< 50
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	70	61	61	84
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5

Client Sample ID			TP71_0.0-0.1	DS17	DS18	DW22
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02602	S21-No02605	S21-No02606	S21-No02607
Date Sampled			Oct 19, 2021	Oct 19, 2021	Oct 19, 2021	Oct 19, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	55	58	85
p-Terphenyl-d14 (surr.)	1	%	-	58	60	86
Heavy Metals						
Arsenic	2	mg/kg	7.9	17	7.1	12
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	20	29	14	22
Copper	5	mg/kg	31	27	19	24
Lead	5	mg/kg	37	47	16	43
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	16	13	11	11
Zinc	5	mg/kg	69	110	39	98
% Moisture						
	1	%	23	33	24	18
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-HCH	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-HCH	0.05	mg/kg	-	-	-	< 0.05
d-HCH	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.05	mg/kg	-	-	-	< 0.05
Toxaphene	0.5	mg/kg	-	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1

Client Sample ID			TP71_0.0-0.1	DS17	DS18	DW22
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02602	S21-No02605	S21-No02606	S21-No02607
Date Sampled			Oct 19, 2021	Oct 19, 2021	Oct 19, 2021	Oct 19, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Dibutylchlorendate (surr.)	1	%	-	-	-	93
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	82
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	%	-	-	-	93
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	82
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-
Bromobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Chloroethane	0.5	mg/kg	< 0.5	-	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			TP71_0.0-0.1	DS17	DS18	DW22
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02602	S21-No02605	S21-No02606	S21-No02607
Date Sampled			Oct 19, 2021	Oct 19, 2021	Oct 19, 2021	Oct 19, 2021
Test/Reference	LOR	Unit				
Volatile Organics						
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
Iodomethane	0.5	mg/kg	< 0.5	-	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Styrene	0.5	mg/kg	< 0.5	-	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Trichloroethene	0.5	mg/kg	< 0.5	-	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
Total MAH*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
4-Bromofluorobenzene (surr.)	1	%	70	-	-	-
Toluene-d8 (surr.)	1	%	95	-	-	-

Client Sample ID			DW23	TP78_0.0-0.1	TP80_0.0-0.1	TP82_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02608	S21-No02609	S21-No02610	S21-No02611
Date Sampled			Oct 19, 2021	Oct 19, 2021	Oct 19, 2021	Oct 19, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	< 50	-	-	-
TRH C29-C36	50	mg/kg	< 50	-	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	-
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-	-
TRH >C34-C40	100	mg/kg	< 100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-

Client Sample ID			DW23	TP78_0.0-0.1	TP80_0.0-0.1	TP82_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02608	S21-No02609	S21-No02610	S21-No02611
Date Sampled			Oct 19, 2021	Oct 19, 2021	Oct 19, 2021	Oct 19, 2021
Test/Reference	LOR	Unit				
BTEX						
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	89	-	-	-
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	%	80	-	-	-
p-Terphenyl-d14 (surr.)	1	%	85	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	9.6	5.5	9.1	7.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	17	12	18	18
Copper	5	mg/kg	20	19	26	25
Lead	5	mg/kg	25	33	22	18
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	10	8.6	12	9.2
Zinc	5	mg/kg	60	140	48	35
% Moisture						
% Moisture	1	%	21	15	14	17
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			DW23	TP78_0.0-0.1	TP80_0.0-0.1	TP82_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02608	S21-No02609	S21-No02610	S21-No02611
Date Sampled			Oct 19, 2021	Oct 19, 2021	Oct 19, 2021	Oct 19, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorodate (surr.)	1	%	88	98	113	112
Tetrachloro-m-xylene (surr.)	1	%	78	87	94	91
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	-	-	-
Dibutylchlorodate (surr.)	1	%	88	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	78	-	-	-

Client Sample ID			TP84_0.0-0.1	TP86_0.0-0.1	TP88_0.0-0.1	TP90_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02612	S21-No02613	S21-No02614	S21-No02615
Date Sampled			Oct 19, 2021	Oct 19, 2021	Oct 19, 2021	Oct 19, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	8.8	7.3	7.2	9.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	21	19	14	20
Copper	5	mg/kg	31	26	19	41
Lead	5	mg/kg	20	24	17	23
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	11	17	14	15
Zinc	5	mg/kg	46	59	44	64
% Moisture						
% Moisture	1	%	16	13	11	19
Conductivity (1:5 aqueous extract at 25°C as rec.)						
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	29	-	-
pH (1:5 Aqueous extract at 25°C as rec.)						
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	6.2	-	-

Client Sample ID			TP84_0.0-0.1	TP86_0.0-0.1	TP88_0.0-0.1	TP90_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02612	S21-No02613	S21-No02614	S21-No02615
Date Sampled			Oct 19, 2021	Oct 19, 2021	Oct 19, 2021	Oct 19, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	105	110	105	122
Tetrachloro-m-xylene (surr.)	1	%	86	95	91	105

Client Sample ID			TP92_0.0-0.1	TP94_0.0-0.1	TP95_0.0-0.1	TP96_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02616	S21-No02617	S21-No02618	S21-No02619
Date Sampled			Oct 19, 2021	Oct 19, 2021	Oct 19, 2021	Oct 20, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	22	-
TRH C15-C28	50	mg/kg	-	-	170	-
TRH C29-C36	50	mg/kg	-	-	110	-
TRH C10-C36 (Total)	50	mg/kg	-	-	302	-
Naphthalene ^{N02}	0.5	mg/kg	-	-	< 0.5	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	94	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	-	94	-
TRH >C16-C34	100	mg/kg	-	-	180	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	274	-

Client Sample ID			TP92_0.0-0.1	TP94_0.0-0.1	TP95_0.0-0.1	TP96_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02616	S21-No02617	S21-No02618	S21-No02619
Date Sampled			Oct 19, 2021	Oct 19, 2021	Oct 19, 2021	Oct 20, 2021
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	-	67	-
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	%	-	-	76	-
p-Terphenyl-d14 (surr.)	1	%	-	-	83	-
Heavy Metals						
Arsenic	2	mg/kg	9.3	7.2	10	16
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	27	18	15	22
Copper	5	mg/kg	34	32	24	39
Lead	5	mg/kg	27	17	22	42
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	15	12	12	18
Zinc	5	mg/kg	52	41	66	69
% Moisture						
% Moisture	1	%	16	17	49	21
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			TP92_0.0-0.1	TP94_0.0-0.1	TP95_0.0-0.1	TP96_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02616	S21-No02617	S21-No02618	S21-No02619
Date Sampled			Oct 19, 2021	Oct 19, 2021	Oct 19, 2021	Oct 20, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	93	96	85	98
Tetrachloro-m-xylene (surr.)	1	%	85	89	80	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	-
Dibutylchloroendate (surr.)	1	%	-	-	85	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	80	-

Client Sample ID			TP98_0.0-0.1	TP100_0.0-0.1	TP101_0.0-0.1	TP102_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02620	S21-No02621	S21-No02622	S21-No02623
Date Sampled			Oct 20, 2021	Oct 20, 2021	Oct 20, 2021	Oct 20, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	15	6.8	-	7.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	20	22	-	23
Copper	5	mg/kg	31	41	-	36
Lead	5	mg/kg	30	20	-	20
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	20	16	-	17
Zinc	5	mg/kg	66	56	-	50

Client Sample ID			TP98_0.0-0.1	TP100_0.0-0.1	TP101_0.0-0.1	TP102_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02620	S21-No02621	S21-No02622	S21-No02623
Date Sampled			Oct 20, 2021	Oct 20, 2021	Oct 20, 2021	Oct 20, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
% Moisture	1	%	17	22	30	22
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	-	260	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	-	5.9	-
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Dibutylchloroendate (surr.)	1	%	104	105	-	100
Tetrachloro-m-xylene (surr.)	1	%	97	96	-	93

Client Sample ID			TP104_0.0-0.1	TP106_0.0-0.1	TP108_0.0-0.1	TP110_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02624	S21-No02625	S21-No02626	S21-No02627
Date Sampled			Oct 20, 2021	Oct 20, 2021	Oct 20, 2021	Oct 20, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	4.7	7.4	14	9.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	21	17	24	16
Copper	5	mg/kg	29	26	36	26
Lead	5	mg/kg	15	15	36	16
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	16	13	28	17
Zinc	5	mg/kg	43	43	92	51
% Moisture	1	%	16	18	25	20

Client Sample ID			TP104_0.0-0.1	TP106_0.0-0.1	TP108_0.0-0.1	TP110_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02624	S21-No02625	S21-No02626	S21-No02627
Date Sampled			Oct 20, 2021	Oct 20, 2021	Oct 20, 2021	Oct 20, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	106	115	111	103
Tetrachloro-m-xylene (surr.)	1	%	102	97	94	95

Client Sample ID			TP112_0.0-0.1	TP114_0.0-0.1	TP116_0.0-0.1	TP118_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02628	S21-No02629	S21-No02630	S21-No02631
Date Sampled			Oct 20, 2021	Oct 20, 2021	Oct 20, 2021	Oct 20, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	7.8	6.0	11	9.2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	27	23	17	18
Copper	5	mg/kg	47	38	26	26
Lead	5	mg/kg	23	19	18	19
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	23	19	15	17
Zinc	5	mg/kg	86	70	47	52
% Moisture						
	1	%	13	4.8	13	22

Client Sample ID			TP112_0.0-0.1	TP114_0.0-0.1	TP116_0.0-0.1	TP118_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02628	S21-No02629	S21-No02630	S21-No02631
Date Sampled			Oct 20, 2021	Oct 20, 2021	Oct 20, 2021	Oct 20, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	118	101	87	105
Tetrachloro-m-xylene (surr.)	1	%	102	91	78	91

Client Sample ID			TP120_0.0-0.1	TP122_0.0-0.1	TP124_0.0-0.1	TP125_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02632	S21-No02633	S21-No02634	S21-No02635
Date Sampled			Oct 20, 2021	Oct 20, 2021	Oct 20, 2021	Oct 20, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	< 20
TRH C10-C14	20	mg/kg	< 20	-	-	< 20
TRH C15-C28	50	mg/kg	< 50	-	-	< 50
TRH C29-C36	50	mg/kg	< 50	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	< 50
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			TP120_0.0-0.1	TP122_0.0-0.1	TP124_0.0-0.1	TP125_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02632	S21-No02633	S21-No02634	S21-No02635
Date Sampled			Oct 20, 2021	Oct 20, 2021	Oct 20, 2021	Oct 20, 2021
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	99	-	-	105
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	94	-	-	97
p-Terphenyl-d14 (surr.)	1	%	93	-	-	91
Heavy Metals						
Arsenic	2	mg/kg	5.0	9.3	10	14
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	12	15	19	21
Copper	5	mg/kg	26	22	28	31
Lead	5	mg/kg	16	13	24	25
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	9.2	12	19	23
Zinc	5	mg/kg	360	37	58	63
Physical Properties						
% Moisture	1	%	30	10	21	16
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	51	-	-	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	6.7	-	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			TP120_0.0-0.1	TP122_0.0-0.1	TP124_0.0-0.1	TP125_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02632	S21-No02633	S21-No02634	S21-No02635
Date Sampled			Oct 20, 2021	Oct 20, 2021	Oct 20, 2021	Oct 20, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	115	102	118	103
Tetrachloro-m-xylene (surr.)	1	%	99	92	103	98
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
Dibutylchloroendate (surr.)	1	%	115	-	-	103
Tetrachloro-m-xylene (surr.)	1	%	99	-	-	98

Client Sample ID			TP126_0.0-0.1	TP128_0.0-0.1	TP130_0.0-0.1	TP132_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02636	S21-No02637	S21-No02638	S21-No02639
Date Sampled			Oct 20, 2021	Oct 21, 2021	Oct 21, 2021	Oct 21, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	12	12	9.3	14
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	20	14	21	19
Copper	5	mg/kg	27	36	36	25
Lead	5	mg/kg	27	14	18	20
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	21	21	18	24
Zinc	5	mg/kg	68	150	57	66

Client Sample ID			TP126_0.0-0.1	TP128_0.0-0.1	TP130_0.0-0.1	TP132_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02636	S21-No02637	S21-No02638	S21-No02639
Date Sampled			Oct 20, 2021	Oct 21, 2021	Oct 21, 2021	Oct 21, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
% Moisture	1	%	17	20	12	28
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	-	64	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	-	6.1	-
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	114	105	77	92
Tetrachloro-m-xylene (surr.)	1	%	104	97	96	99

Client Sample ID			TP134_0.0-0.1	TP136_0.0-0.1	TP137_0.0-0.1	TP138_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02640	S21-No02641	S21-No02642	S21-No02643
Date Sampled			Oct 21, 2021	Oct 21, 2021	Oct 21, 2021	Oct 21, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	12	11	-	11
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	19	21	-	21
Copper	5	mg/kg	26	26	-	28
Lead	5	mg/kg	22	23	-	23
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	18	20	-	19
Zinc	5	mg/kg	49	56	-	59

Client Sample ID			TP134_0.0-0.1	TP136_0.0-0.1	TP137_0.0-0.1	TP138_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02640	S21-No02641	S21-No02642	S21-No02643
Date Sampled			Oct 21, 2021	Oct 21, 2021	Oct 21, 2021	Oct 21, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	19	19	13	18
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	-	29	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	-	6.0	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Dibutylchloroendate (surr.)	1	%	85	104	-	96
Tetrachloro-m-xylene (surr.)	1	%	92	106	-	96

Client Sample ID			TP86_0.5-0.6	TP101_0.5-0.6	TP120_0.5-0.6	TP130_0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02644	S21-No02645	S21-No02646	S21-No02647
Date Sampled			Oct 19, 2021	Oct 20, 2021	Oct 20, 2021	Oct 21, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	16	19	14	15
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	47	34	-	19
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	6.7	6.4	-	6.5
Chloride	10	mg/kg	29	-	-	-
Resistivity*	0.5	ohm.m	210	-	-	-
Sulphate (as SO4)	10	mg/kg	44	-	-	-

Client Sample ID			TP86_0.5-0.6	TP101_0.5-0.6	TP120_0.5-0.6	TP130_0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02644	S21-No02645	S21-No02646	S21-No02647
Date Sampled			Oct 19, 2021	Oct 20, 2021	Oct 20, 2021	Oct 21, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	-
a-HCH	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-HCH	0.05	mg/kg	-	-	< 0.05	-
d-HCH	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.05	mg/kg	-	-	< 0.05	-
Toxaphene	0.5	mg/kg	-	-	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchloroendate (surr.)	1	%	-	-	90	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	95	-
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	-
Dibutylchloroendate (surr.)	1	%	-	-	90	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	95	-

Client Sample ID			TP137_0.5-0.6	DS19	DS20	DS21
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02648	S21-No02653	S21-No02654	S21-No02655
Date Sampled			Oct 21, 2021	Oct 21, 2021	Oct 20, 2021	Oct 20, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	-	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	-	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	-	< 50	< 50	51
TRH C10-C36 (Total)	50	mg/kg	-	< 50	< 50	51
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
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	97	82	82
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	69	66	63
p-Terphenyl-d14 (surr.)	1	%	-	73	74	67
Heavy Metals						
Arsenic	2	mg/kg	-	11	6.9	10
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	21	18	18
Copper	5	mg/kg	-	21	31	21

Client Sample ID			TP137_0.5-0.6	DS19	DS20	DS21
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02648	S21-No02653	S21-No02654	S21-No02655
Date Sampled			Oct 21, 2021	Oct 21, 2021	Oct 20, 2021	Oct 20, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Lead	5	mg/kg	-	24	18	15
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	14	15	11
Zinc	5	mg/kg	-	73	68	55
% Moisture	1	%	19	33	33	26
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	15	-	-	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	7.1	-	-	-

Client Sample ID			DS22	BD5	TP86_1.0-1.1	TP86_1.5-1.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02656	S21-No02657	S21-No02658	S21-No02659
Date Sampled			Oct 20, 2021	Oct 21, 2021	Oct 19, 2021	Oct 19, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	< 50	-	-	-
TRH C29-C36	50	mg/kg	< 50	-	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	-
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	-	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-	-
TRH >C34-C40	100	mg/kg	< 100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	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	-	-	-

Client Sample ID			DS22	BD5	TP86_1.0-1.1	TP86_1.5-1.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02656	S21-No02657	S21-No02658	S21-No02659
Date Sampled			Oct 20, 2021	Oct 21, 2021	Oct 19, 2021	Oct 19, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	%	57	-	-	-
p-Terphenyl-d14 (surr.)	1	%	79	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	20	-	-	-
Cadmium	0.4	mg/kg	< 0.4	-	-	-
Chromium	5	mg/kg	18	-	-	-
Copper	5	mg/kg	28	-	-	-
Lead	5	mg/kg	18	-	-	-
Mercury	0.1	mg/kg	< 0.1	-	-	-
Nickel	5	mg/kg	19	-	-	-
Zinc	5	mg/kg	53	-	-	-
Physical Properties						
% Moisture	1	%	26	14	15	15
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	-	160	160
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	-	6.4	6.3
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4,4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4,4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4,4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-HCH	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-HCH	0.05	mg/kg	-	< 0.05	-	-
d-HCH	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	0.5	mg/kg	-	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-

Client Sample ID			DS22	BD5	TP86_1.0-1.1	TP86_1.5-1.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02656	S21-No02657	S21-No02658	S21-No02659
Date Sampled			Oct 20, 2021	Oct 21, 2021	Oct 19, 2021	Oct 19, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	95	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	96	-	-
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	%	-	96	-	-

Client Sample ID			TP86_2.0-2.1	TP89_2.5-2.6	TP101_1.0-1.1	TP120_1.0-1.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02660	S21-No02661	S21-No02662	S21-No02663
Date Sampled			Oct 19, 2021	Oct 19, 2021	Oct 20, 2021	Oct 20, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	15	16	13	8.9
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	340	380	95	54
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	5.5	5.5	7.6	7.9
Chloride	10	mg/kg	-	-	20	-
Resistivity*	0.5	ohm.m	-	-	110	-
Sulphate (as SO4)	10	mg/kg	-	-	21	-

Client Sample ID			TP120_1.5-1.6	TP120_2.0-2.1	TP120_2.5-2.6	TP130_1.0-1.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02664	S21-No02665	S21-No02666	S21-No02667
Date Sampled			Oct 20, 2021	Oct 20, 2021	Oct 20, 2021	Oct 21, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	8.2	8.8	9.4	11
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	38	120	140	21
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	7.5	7.5	8.7	7.5
Chloride	10	mg/kg	-	-	74	-
Resistivity*	0.5	ohm.m	-	-	74	-
Sulphate (as SO4)	10	mg/kg	-	-	38	-

Client Sample ID			TP130_1.5-1.6	TP130_2.0-2.1	TP137_1.0-1.1	TP137_1.5-1.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02668	S21-No02669	S21-No02670	S21-No02671
Date Sampled			Oct 21, 2021	Oct 21, 2021	Oct 21, 2021	Oct 21, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	7.4	8.3	17	16
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	19	21	35	61
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	7.1	7.3	7.6	7.8
Chloride	10	mg/kg	< 10	-	-	-
Resistivity*	0.5	ohm.m	530	-	-	-
Sulphate (as SO4)	10	mg/kg	< 10	-	-	-

Client Sample ID			TP137_2.0-2.1	TP137_2.5-2.6	TRIP BLANK 15/10	TRIP SPIKE 15/10
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02672	S21-No02673	S21-No02674	S21-No02675
Date Sampled			Oct 21, 2021	Oct 21, 2021	Oct 15, 2021	Oct 15, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	< 20	-
Naphthalene ^{N02}	0.5	mg/kg	-	-	< 0.5	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	< 20	-
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	-	112	-
% Moisture						
% Moisture	1	%	13	11	-	-
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	150	160	-	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	6.5	6.3	-	-
Chloride	10	mg/kg	-	240	-	-
Resistivity*	0.5	ohm.m	-	63	-	-
Sulphate (as SO4)	10	mg/kg	-	< 10	-	-
TRH C6-C10	1	%	-	-	-	90
Total Recoverable Hydrocarbons						
Naphthalene	1	%	-	-	-	87
TRH C6-C9	1	%	-	-	-	91
BTEX						
Benzene	1	%	-	-	-	91
Ethylbenzene	1	%	-	-	-	93
m&p-Xylenes	1	%	-	-	-	93
o-Xylene	1	%	-	-	-	94
Toluene	1	%	-	-	-	91
Xylenes - Total	1	%	-	-	-	94
4-Bromofluorobenzene (surr.)	1	%	-	-	-	88

Client Sample ID			TRIP BLANK 18/10	TRIP SPIKE 18/10	TRIP BLANK 19/10	TRIP SPIKE 19/10
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02677	S21-No02678	S21-No02680	S21-No02681
Date Sampled			Oct 18, 2021	Oct 18, 2021	Oct 19, 2021	Oct 19, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
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	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	55	-	112	-
TRH C6-C10	1	%	-	100	-	96
Total Recoverable Hydrocarbons						
Naphthalene	1	%	-	96	-	89
TRH C6-C9	1	%	-	100	-	97
BTEX						
Benzene	1	%	-	100	-	97
Ethylbenzene	1	%	-	100	-	99
m&p-Xylenes	1	%	-	100	-	98
o-Xylene	1	%	-	100	-	100
Toluene	1	%	-	100	-	99
Xylenes - Total	1	%	-	100	-	99
4-Bromofluorobenzene (surr.)	1	%	-	71	-	96

Client Sample ID			TRIP BLANK 20/10	TRIP SPIKE 20/10	TRIP BLANK 21/10	TRIP SPIKE 21/10
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02683	S21-No02684	S21-No02686	S21-No02687
Date Sampled			Oct 20, 2021	Oct 20, 2021	Oct 21, 2021	Oct 21, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
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	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	123	-	87	-
TRH C6-C10	1	%	-	79	-	86

Client Sample ID			TRIP BLANK 20/10	TRIP SPIKE 20/10	TRIP BLANK 21/10	TRIP SPIKE 21/10
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No02683	S21-No02684	S21-No02686	S21-No02687
Date Sampled			Oct 20, 2021	Oct 20, 2021	Oct 21, 2021	Oct 21, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
Naphthalene	1	%	-	80	-	81
TRH C6-C9	1	%	-	80	-	87
BTEX						
Benzene	1	%	-	85	-	87
Ethylbenzene	1	%	-	84	-	87
m&p-Xylenes	1	%	-	83	-	86
o-Xylene	1	%	-	83	-	87
Toluene	1	%	-	85	-	87
Xylenes - Total	1	%	-	83	-	87
4-Bromofluorobenzene (surr.)	1	%	-	92	-	103

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 09, 2021	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 09, 2021	14 Days
Total Recoverable Hydrocarbons - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 09, 2021	14 Days
BTEX - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 09, 2021	14 Days
Eurofins Suite B6			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 09, 2021	14 Days
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Sydney	Nov 09, 2021	28 Days
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Sydney	Nov 09, 2021	14 Days
Heavy Metals - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Sydney	Nov 08, 2021	28 Days
Volatile Organics - Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices	Sydney	Nov 09, 2021	7 Days
% Moisture - Method: LTM-GEN-7080 Moisture	Sydney	Nov 01, 2021	14 Days
Conductivity (1:5 aqueous extract at 25°C as rec.) - Method: LTM-INO-4030 Conductivity	Sydney	Nov 09, 2021	7 Days
pH (1:5 Aqueous extract at 25°C as rec.) - Method: LTM-GEN-7090 pH by ISE	Sydney	Nov 09, 2021	7 Days
Chloride - Method: In-house method LTM-INO-4270 Anions by Ion Chromatography	Sydney	Nov 08, 2021	28 Days
Sulphate (as SO ₄) - Method: In-house method LTM-INO-4270 Sulphate by Ion Chromatograph	Sydney	Nov 08, 2021	28 Days
Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water	Sydney	Nov 09, 2021	14 Days
Polychlorinated Biphenyls - Method: LTM-ORG-2220 OCP & PCB in Soil and Water	Sydney	Nov 09, 2021	28 Days

Company Name: Alliance Geotechnical
Address: 10 Welder Road
Seven Hills
NSW 2147

Project Name: KEMPS CREEK
Project ID: 13546

Order No.:
Report #: 836977
Phone: 1800 288 188
Fax: 02 9675 1888

Received: Oct 28, 2021 1:54 PM
Due: Nov 4, 2021
Priority: 5 Day
Contact Name: Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Arsenic	Chromium	Conductivity (1:5 aqueous extract at 25°C as rec.)	Copper	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Volatile Organics	Moisture Set	Eurofins Suite B7	Eurofins Suite B6	BTEXN and Volatile TRH	BTEXN and Volatile TRH		
Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID																		
1	SW09	Oct 15, 2021		Water	S21-No02556									X				X					
2	SW10	Oct 15, 2021		Water	S21-No02557									X				X					
3	DS11	Oct 15, 2021		Soil	S21-No02558												X	X					
4	DS12	Oct 15, 2021		Soil	S21-No02559												X	X					
5	TP50_0.0-0.1	Oct 15, 2021		Soil	S21-No02560									X			X	X					
6	TP51_0.0-0.1	Oct 15, 2021		Soil	S21-No02561									X			X	X					
7	TP52_0.0-0.1	Oct 15, 2021		Soil	S21-No02562			X			X			X			X	X					
8	TP52_0.5-0.6	Oct 15, 2021		Soil	S21-No02563			X			X						X						
9	TP52_1.0-1.1	Oct 15, 2021		Soil	S21-No02564			X			X						X						

ABN: 50 005 085 521

ABN: 91 05 0159 898

NZBN: 9429046024954

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Project Name: KEMPS CREEK
Project ID: 13546

Order No.:
Report #: 836977
Phone: 1800 288 188
Fax: 02 9675 1888

Received: Oct 28, 2021 1:54 PM
Due: Nov 4, 2021
Priority: 5 Day
Contact Name: Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Arsenic	Chromium	Conductivity (1:5 aqueous extract at 25°C as rec.)	Copper	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Volatile Organics	Moisture Set	Eurofins Suite B7	Eurofins Suite B6	BTEXN and Volatile TRH	BTEXN and Volatile TRH		
Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
10	TP52_1.5-1.6	Oct 15, 2021		Soil	S21-No02565			X			X						X						
11	TP52_2.0-2.1	Oct 15, 2021		Soil	S21-No02566			X			X						X						
12	TP52_2.5-2.6	Oct 15, 2021		Soil	S21-No02567										X		X						
13	TP53_0.0-0.1	Oct 15, 2021		Soil	S21-No02568									X			X	X					
14	TP54_0.0-0.1	Oct 15, 2021		Soil	S21-No02569									X			X	X					
15	DS13	Oct 18, 2021		Soil	S21-No02570												X	X					
16	DS14	Oct 18, 2021		Soil	S21-No02571												X	X					
17	SW11	Oct 18, 2021		Water	S21-No02572									X				X					
18	SW12	Oct 18, 2021		Water	S21-No02573									X				X					
19	TP61_0.0-0.1	Oct 18, 2021		Soil	S21-No02574												X		X				
20	TP62_0.0-0.1	Oct 18, 2021		Soil	S21-No02575			X			X						X		X				

ABN: 50 005 085 521

ABN: 91 05 0159 898

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Company Name: Alliance Geotechnical
Address: 10 Welder Road
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NSW 2147

Project Name: KEMPS CREEK
Project ID: 13546

Order No.:
Report #: 836977
Phone: 1800 288 188
Fax: 02 9675 1888

Received: Oct 28, 2021 1:54 PM
Due: Nov 4, 2021
Priority: 5 Day
Contact Name: Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Arsenic	Chromium	Conductivity (1:5 aqueous extract at 25°C as rec.)	Copper	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Volatile Organics	Moisture Set	Eurofins Suite B7	Eurofins Suite B6	BTEXN and Volatile TRH	BTEXN and Volatile TRH		
Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
21	TP62_0.5-0.6	Oct 18, 2021		Soil	S21-No02576			X			X						X						
22	TP62_1.0-1.1	Oct 18, 2021		Soil	S21-No02577			X			X						X						
23	TP62_1.5-1.6	Oct 18, 2021		Soil	S21-No02578										X		X						
24	TP62_2.0-2.1	Oct 18, 2021		Soil	S21-No02579			X			X						X						
25	TP62_2.5-2.6	Oct 18, 2021		Soil	S21-No02580			X			X						X						
26	TP64_0.0-0.1	Oct 18, 2021		Soil	S21-No02581	X	X		X								X						
27	TP65_0.0-0.1	Oct 18, 2021		Soil	S21-No02582	X	X		X								X						
28	TP66_0.0-0.1	Oct 18, 2021		Soil	S21-No02583	X	X		X								X						
29	BD4	Oct 18, 2021		Soil	S21-No02584												X	X					
30	SP3-1	Oct 18, 2021		Soil	S21-No02585									X			X	X					
31	SP3-2	Oct 18, 2021		Soil	S21-No02586									X			X	X					

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Company Name: Alliance Geotechnical
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Order No.:
Report #: 836977
Phone: 1800 288 188
Fax: 02 9675 1888

Received: Oct 28, 2021 1:54 PM
Due: Nov 4, 2021
Priority: 5 Day
Contact Name: Jacob Walker

Project Name: KEMPS CREEK
Project ID: 13546

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Arsenic	Chromium	Conductivity (1:5 aqueous extract at 25°C as rec.)	Copper	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Volatile Organics	Moisture Set	Eurofins Suite B7	Eurofins Suite B6	BTEXN and Volatile TRH	BTEXN and Volatile TRH		
Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
32	PP9	Oct 18, 2021		Soil	S21-No02587	X	X		X								X						
33	DR15 0.0-0.1	Oct 18, 2021		Soil	S21-No02588												X	X					
34	PP1	Oct 18, 2021		Soil	S21-No02589	X	X		X								X						
35	PP10	Oct 18, 2021		Soil	S21-No02590	X	X		X								X						
36	PP11	Oct 18, 2021		Soil	S21-No02591	X	X		X								X						
37	PP12	Oct 18, 2021		Soil	S21-No02592	X	X		X								X						
38	SW13	Oct 18, 2021		Water	S21-No02593									X				X					
39	SW14	Oct 18, 2021		Water	S21-No02594									X				X					
40	DS15	Oct 18, 2021		Soil	S21-No02595												X	X					
41	DS16	Oct 18, 2021		Soil	S21-No02596												X	X					
42	TP141_0.0-0.1	Oct 18, 2021		Soil	S21-No02597									X			X	X					

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Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
43	TP142_0.5-0.6	Oct 18, 2021		Soil	S21-No02598									X			X	X					
44	DR16 0.0-0.1	Oct 19, 2021		Soil	S21-No02599												X	X					
45	DR17 0.0-0.1	Oct 19, 2021		Soil	S21-No02600												X	X					
46	TP70_0.0-0.1	Oct 19, 2021		Soil	S21-No02601											X	X		X				
47	TP71_0.0-0.1	Oct 19, 2021		Soil	S21-No02602											X	X		X				
48	SW15	Oct 19, 2021		Water	S21-No02603									X				X					
49	SW16	Oct 19, 2021		Water	S21-No02604									X				X					
50	DS17	Oct 19, 2021		Soil	S21-No02605												X	X					
51	DS18	Oct 19, 2021		Soil	S21-No02606												X	X					
52	DW22	Oct 19, 2021		Soil	S21-No02607									X			X	X					
53	DW23	Oct 19, 2021		Soil	S21-No02608									X			X	X					

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Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
54	TP78_0.0-0.1	Oct 19, 2021		Soil	S21-No02609							X	X				X						
55	TP80_0.0-0.1	Oct 19, 2021		Soil	S21-No02610							X	X				X						
56	TP82_0.0-0.1	Oct 19, 2021		Soil	S21-No02611							X	X				X						
57	TP84_0.0-0.1	Oct 19, 2021		Soil	S21-No02612							X	X				X						
58	TP86_0.0-0.1	Oct 19, 2021		Soil	S21-No02613		X			X	X	X	X				X						
59	TP88_0.0-0.1	Oct 19, 2021		Soil	S21-No02614							X	X				X						
60	TP90_0.0-0.1	Oct 19, 2021		Soil	S21-No02615							X	X				X						
61	TP92_0.0-0.1	Oct 19, 2021		Soil	S21-No02616							X	X				X						
62	TP94_0.0-0.1	Oct 19, 2021		Soil	S21-No02617							X	X				X						
63	TP95_0.0-0.1	Oct 19, 2021		Soil	S21-No02618									X			X	X					
64	TP96_0.0-0.1	Oct 20, 2021		Soil	S21-No02619							X	X				X						

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Sample Detail						Arsenic	Chromium	Conductivity (1:5 aqueous extract at 25°C as rec.)	Copper	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Volatile Organics	Moisture Set	Eurofins Suite B7	Eurofins Suite B6	BTEXN and Volatile TRH	BTEXN and Volatile TRH		
Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
65	TP98_0.0-0.1	Oct 20, 2021		Soil	S21-No02620							X	X				X						
66	TP100_0.0-0.1	Oct 20, 2021		Soil	S21-No02621							X	X				X						
67	TP101_0.0-0.1	Oct 20, 2021		Soil	S21-No02622		X			X							X						
68	TP102_0.0-0.1	Oct 20, 2021		Soil	S21-No02623							X	X				X						
69	TP104_0.0-0.1	Oct 20, 2021		Soil	S21-No02624							X	X				X						
70	TP106_0.0-0.1	Oct 20, 2021		Soil	S21-No02625							X	X				X						
71	TP108_0.0-0.1	Oct 20, 2021		Soil	S21-No02626							X	X				X						
72	TP110_0.0-0.1	Oct 20, 2021		Soil	S21-No02627							X	X				X						
73	TP112_0.0-0.1	Oct 20, 2021		Soil	S21-No02628							X	X				X						
74	TP114_0.0-0.1	Oct 20, 2021		Soil	S21-No02629							X	X				X						
75	TP116_0.0-0.1	Oct 20, 2021		Soil	S21-No02630							X	X				X						

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Melbourne Laboratory - NATA # 1261 Site # 1254																								
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																								
Mayfield Laboratory - NATA # 1261 Site # 25079																								
Perth Laboratory - NATA # 2377 Site # 2370																								
External Laboratory																								
76	TP118_0.0-0.1	Oct 20, 2021		Soil	S21-No02631							X	X				X							
77	TP120_0.0-0.1	Oct 20, 2021		Soil	S21-No02632		X			X				X			X	X						
78	TP122_0.0-0.1	Oct 20, 2021		Soil	S21-No02633							X	X				X							
79	TP124_0.0-0.1	Oct 20, 2021		Soil	S21-No02634							X	X				X							
80	TP125_0.0-0.1	Oct 20, 2021		Soil	S21-No02635									X			X	X						
81	TP126_0.0-0.1	Oct 20, 2021		Soil	S21-No02636							X	X				X							
82	TP128_0.0-0.1	Oct 21, 2021		Soil	S21-No02637							X	X				X							
83	TP130_0.0-0.1	Oct 21, 2021		Soil	S21-No02638		X			X	X	X	X				X							
84	TP132_0.0-0.1	Oct 21, 2021		Soil	S21-No02639							X	X				X							
85	TP134_0.0-0.1	Oct 21, 2021		Soil	S21-No02640							X	X				X							
86	TP136_0.0-0.1	Oct 21, 2021		Soil	S21-No02641							X	X				X							

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Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
87	TP137_0.0-0.1	Oct 21, 2021		Soil	S21-No02642			X			X						X						
88	TP138_0.0-0.1	Oct 21, 2021		Soil	S21-No02643							X	X				X						
89	TP86_0.5-0.6	Oct 19, 2021		Soil	S21-No02644										X		X						
90	TP101_0.5-0.6	Oct 20, 2021		Soil	S21-No02645			X			X						X						
91	TP120_0.5-0.6	Oct 20, 2021		Soil	S21-No02646									X			X						
92	TP130_0.5-0.6	Oct 21, 2021		Soil	S21-No02647			X			X						X						
93	TP137_0.5-0.6	Oct 21, 2021		Soil	S21-No02648			X			X						X						
94	SW17	Oct 21, 2021		Water	S21-No02649									X				X					
95	SW18	Oct 21, 2021		Water	S21-No02650									X				X					
96	SW19	Oct 21, 2021		Water	S21-No02651									X				X					
97	SW20	Oct 21, 2021		Water	S21-No02652									X				X					

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Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
98	DS19	Oct 21, 2021		Soil	S21-No02653												X	X					
99	DS20	Oct 20, 2021		Soil	S21-No02654												X	X					
100	DS21	Oct 20, 2021		Soil	S21-No02655												X	X					
101	DS22	Oct 20, 2021		Soil	S21-No02656												X	X					
102	BD5	Oct 21, 2021		Soil	S21-No02657								X				X						
103	TP86_1.0-1.1	Oct 19, 2021		Soil	S21-No02658		X			X							X						
104	TP86_1.5-1.6	Oct 19, 2021		Soil	S21-No02659		X			X							X						
105	TP86_2.0-2.1	Oct 19, 2021		Soil	S21-No02660		X			X							X						
106	TP89_2.5-2.6	Oct 19, 2021		Soil	S21-No02661		X			X							X						
107	TP101_1.0-1.1	Oct 20, 2021		Soil	S21-No02662										X		X						
108	TP120_1.0-1.1	Oct 20, 2021		Soil	S21-No02663		X			X							X						

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Company Name: Alliance Geotechnical
Address: 10 Welder Road
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Project Name: KEMPS CREEK
Project ID: 13546

Order No.:
Report #: 836977
Phone: 1800 288 188
Fax: 02 9675 1888

Received: Oct 28, 2021 1:54 PM
Due: Nov 4, 2021
Priority: 5 Day
Contact Name: Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Arsenic	Chromium	Conductivity (1:5 aqueous extract at 25°C as rec.)	Copper	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Volatile Organics	Moisture Set	Eurofins Suite B7	Eurofins Suite B6	BTEXN and Volatile TRH	BTEXN and Volatile TRH		
Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
109	TP120_1.5-1.6	Oct 20, 2021		Soil	S21-No02664			X			X						X						
110	TP120_2.0-2.1	Oct 20, 2021		Soil	S21-No02665			X			X						X						
111	TP120_2.5-2.6	Oct 20, 2021		Soil	S21-No02666										X		X						
112	TP130_1.0-1.1	Oct 21, 2021		Soil	S21-No02667			X			X						X						
113	TP130_1.5-1.6	Oct 21, 2021		Soil	S21-No02668										X		X						
114	TP130_2.0-2.1	Oct 21, 2021		Soil	S21-No02669			X			X						X						
115	TP137_1.0-1.1	Oct 21, 2021		Soil	S21-No02670			X			X						X						
116	TP137_1.5-1.6	Oct 21, 2021		Soil	S21-No02671			X			X						X						
117	TP137_2.0-2.1	Oct 21, 2021		Soil	S21-No02672			X			X						X						
118	TP137_2.5-2.6	Oct 21, 2021		Soil	S21-No02673										X		X						
119	TRIP BLANK	Oct 15, 2021		Soil	S21-No02674												X			X			

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Melbourne Laboratory - NATA # 1261 Site # 1254																								
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																								
Mayfield Laboratory - NATA # 1261 Site # 25079																								
Perth Laboratory - NATA # 2377 Site # 2370																								
External Laboratory																								
	15/10																							
120	TRIP SPIKE 15/10	Oct 15, 2021		Soil	S21-No02675												X					X		
121	TRIP SPIKE LAB 15/10	Oct 15, 2021		Soil	S21-No02676												X					X		
122	TRIP BLANK 18/10	Oct 18, 2021		Soil	S21-No02677												X			X				
123	TRIP SPIKE 18/10	Oct 18, 2021		Soil	S21-No02678												X					X		
124	TRIP SPIKE LAB 18/10	Oct 18, 2021		Soil	S21-No02679												X					X		
125	TRIP BLANK 19/10	Oct 19, 2021		Soil	S21-No02680												X			X				

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Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
126	TRIP SPIKE 19/10	Oct 19, 2021		Soil	S21-No02681												X					X	
127	TRIP SPIKE LAB 19/10	Oct 19, 2021		Soil	S21-No02682												X					X	
128	TRIP BLANK 20/10	Oct 20, 2021		Soil	S21-No02683												X			X			
129	TRIP SPIKE 20/10	Oct 20, 2021		Soil	S21-No02684												X					X	
130	TRIP SPIKE LAB 20/10	Oct 20, 2021		Soil	S21-No02685												X					X	
131	TRIP BLANK 21/10	Oct 21, 2021		Soil	S21-No02686												X			X			
132	TRIP SPIKE	Oct 21, 2021		Soil	S21-No02687												X					X	

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Melbourne Laboratory - NATA # 1261 Site # 1254																								
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																								
Mayfield Laboratory - NATA # 1261 Site # 25079																								
Perth Laboratory - NATA # 2377 Site # 2370																								
External Laboratory																								
	21/10																							
133	TRIP SPIKE LAB 21/10	Oct 21, 2021		Soil	S21-No02688												X					X		
134	DW13	Oct 15, 2021		Soil	S21-No02689					X														
135	DW14	Oct 15, 2021		Soil	S21-No02690					X														
136	DW15	Oct 15, 2021		Soil	S21-No02691					X														
137	DW16	Oct 15, 2021		Soil	S21-No02692					X														
138	TP50_0.5-0.6	Oct 15, 2021		Soil	S21-No02693					X														
139	TP51_1.0-1.1	Oct 15, 2021		Soil	S21-No02694					X														
140	TP51_2.0-2.1	Oct 15, 2021		Soil	S21-No02695					X														
141	TP51_2.3-2.4	Oct 15, 2021		Soil	S21-No02696					X														

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Melbourne Laboratory - NATA # 1261 Site # 1254																				
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																				
Mayfield Laboratory - NATA # 1261 Site # 25079																				
Perth Laboratory - NATA # 2377 Site # 2370																				
External Laboratory																				
142	TP53_0.3-0.4	Oct 15, 2021	Soil					X												
143	TP54_1.0-1.1	Oct 15, 2021	Soil					X												
144	TP54_2.0-2.1	Oct 15, 2021	Soil					X												
145	TP54_2.4-2.5	Oct 15, 2021	Soil					X												
146	DW17	Oct 15, 2021	Soil					X												
147	DW18	Oct 15, 2021	Soil					X												
148	DW19	Oct 15, 2021	Soil					X												
149	TP61_0.5-0.6	Oct 18, 2021	Soil					X												
150	TP61_1.0-1.1	Oct 18, 2021	Soil					X												
151	TP63_0.0-0.1	Oct 18, 2021	Soil					X												
152	TP63_0.5-0.6	Oct 18, 2021	Soil					X												

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Melbourne Laboratory - NATA # 1261 Site # 1254																				
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																				
Mayfield Laboratory - NATA # 1261 Site # 25079																				
Perth Laboratory - NATA # 2377 Site # 2370																				
External Laboratory																				
153	TP63_1.0-1.1	Oct 18, 2021	Soil					X												
154	TP64_1.0-1.1	Oct 18, 2021	Soil					X												
155	TP64_1.5-1.6	Oct 18, 2021	Soil					X												
156	TP65_1.0-1.1	Oct 18, 2021	Soil					X												
157	TP65_2.0-2.1	Oct 18, 2021	Soil					X												
158	TP66_0.6-0.7	Oct 18, 2021	Soil					X												
159	DR15 0.4-0.5	Oct 18, 2021	Soil					X												
160	DW20	Oct 18, 2021	Soil					X												
161	DW21	Oct 18, 2021	Soil					X												
162	TP141_0.5-0.6	Oct 18, 2021	Soil					X												
163	TP141_1.5-1.6	Oct 18, 2021	Soil					X												

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Melbourne Laboratory - NATA # 1261 Site # 1254																				
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																				
Mayfield Laboratory - NATA # 1261 Site # 25079																				
Perth Laboratory - NATA # 2377 Site # 2370																				
External Laboratory																				
164	TP142_0.0-0.1	Oct 18, 2021	Soil					X												
165	TP142_1.5-1.6	Oct 18, 2021	Soil					X												
166	DR16 1.0-1.1	Oct 19, 2021	Soil					X												
167	DR16 2.0-2.1	Oct 19, 2021	Soil					X												
168	DR17 1.0-1.1	Oct 19, 2021	Soil					X												
169	TP70_0.3-0.4	Oct 19, 2021	Soil					X												
170	TP71_0.3-0.4	Oct 19, 2021	Soil					X												
171	TP79_0.0-0.1	Oct 19, 2021	Soil					X												
172	TP81_0.0-0.1	Oct 19, 2021	Soil					X												
173	TP83_0.0-0.1	Oct 19, 2021	Soil					X												
174	TP85_0.0-0.1	Oct 19, 2021	Soil					X												

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Melbourne Laboratory - NATA # 1261 Site # 1254																				
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																				
Mayfield Laboratory - NATA # 1261 Site # 25079																				
Perth Laboratory - NATA # 2377 Site # 2370																				
External Laboratory																				
175	TP87_0.0-0.1	Oct 19, 2021						X												
176	TP89_0.0-0.1	Oct 19, 2021						X												
177	TP91_0.0-0.1	Oct 19, 2021						X												
178	TP93_0.0-0.1	Oct 19, 2021						X												
179	TP97_0.0-0.1	Oct 20, 2021						X												
180	TP99_0.0-0.1	Oct 20, 2021						X												
181	TP103_0.0-0.1	Oct 20, 2021						X												
182	TP105_0.0-0.1	Oct 20, 2021						X												
183	TP107_0.0-0.1	Oct 20, 2021						X												
184	TP109_0.0-0.1	Oct 20, 2021						X												
185	TP111_0.0-0.1	Oct 20, 2021						X												

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ABN: 91 05 0159 898

NZBN: 9429046024954

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Company Name: Alliance Geotechnical
Address: 10 Welder Road
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Order No.:
Report #: 836977
Phone: 1800 288 188
Fax: 02 9675 1888

Received: Oct 28, 2021 1:54 PM
Due: Nov 4, 2021
Priority: 5 Day
Contact Name: Jacob Walker

Project Name: KEMPS CREEK
Project ID: 13546

Eurofins Analytical Services Manager : Andrew Black

Sample Detail				Arsenic	Chromium	Conductivity (1:5 aqueous extract at 25°C as rec.)	Copper	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Volatile Organics	Moisture Set	Eurofins Suite B7	Eurofins Suite B6	BTEXN and Volatile TRH	BTEXN and Volatile TRH	
Melbourne Laboratory - NATA # 1261 Site # 1254																				
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																				
Mayfield Laboratory - NATA # 1261 Site # 25079																				
Perth Laboratory - NATA # 2377 Site # 2370																				
External Laboratory																				
186	TP113_0.0-0.1	Oct 20, 2021						X												
187	TP115_0.0-0.1	Oct 20, 2021						X												
188	TP117_0.0-0.1	Oct 20, 2021						X												
189	TP119_0.0-0.1	Oct 20, 2021						X												
190	TP121_0.0-0.1	Oct 20, 2021						X												
191	TP123_0.0-0.1	Oct 20, 2021						X												
192	TP127_0.0-0.1	Oct 21, 2021						X												
193	TP129_0.0-0.1	Oct 21, 2021						X												
194	TP131_0.0-0.1	Oct 21, 2021						X												
195	TP133_0.0-0.1	Oct 21, 2021						X												
196	TP135_0.0-0.1	Oct 21, 2021						X												

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Melbourne Laboratory - NATA # 1261 Site # 1254																				
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																				
Mayfield Laboratory - NATA # 1261 Site # 25079																				
Perth Laboratory - NATA # 2377 Site # 2370																				
External Laboratory																				
197	TP139_0.0-0.1	Oct 21, 2021	Soil					X												
198	TP78_0.2-0.3	Oct 19, 2021	Soil					X												
199	TP79_0.2-0.3	Oct 19, 2021	Soil					X												
200	TP80_0.2-0.3	Oct 19, 2021	Soil					X												
201	TP81_0.2-0.3	Oct 19, 2021	Soil					X												
202	TP82_0.2-0.3	Oct 19, 2021	Soil					X												
203	TP83_0.2-0.3	Oct 19, 2021	Soil					X												
204	TP84_0.2-0.3	Oct 19, 2021	Soil					X												
205	TP85_0.2-0.3	Oct 19, 2021	Soil					X												
206	TP87_0.2-0.3	Oct 19, 2021	Soil					X												
207	TP88_0.2-0.3	Oct 19, 2021	Soil					X												

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Eurofins Analytical Services Manager : Andrew Black

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Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
208	TP89_0.2-0.3	Oct 19, 2021		Soil	S21-No02763					X													
209	TP90_0.2-0.3	Oct 19, 2021		Soil	S21-No02764					X													
210	TP91_0.2-0.3	Oct 19, 2021		Soil	S21-No02765					X													
211	TP92_0.2-0.3	Oct 19, 2021		Soil	S21-No02766					X													
212	TP93_0.2-0.3	Oct 19, 2021		Soil	S21-No02767					X													
213	TP94_0.2-0.3	Oct 19, 2021		Soil	S21-No02768					X													
214	TP95_0.2-0.3	Oct 19, 2021		Soil	S21-No02769					X													
215	TP96_0.2-0.3	Oct 20, 2021		Soil	S21-No02770					X													
216	TP97_0.2-0.3	Oct 20, 2021		Soil	S21-No02771					X													
217	TP98_0.2-0.3	Oct 20, 2021		Soil	S21-No02772					X													
218	TP99_0.2-0.3	Oct 20, 2021		Soil	S21-No02773					X													

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Melbourne Laboratory - NATA # 1261 Site # 1254																				
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																				
Mayfield Laboratory - NATA # 1261 Site # 25079																				
Perth Laboratory - NATA # 2377 Site # 2370																				
External Laboratory																				
219	TP100_0.2-0.3	Oct 20, 2021						X												
220	TP102_0.2-0.3	Oct 20, 2021						X												
221	TP103_0.2-0.3	Oct 20, 2021						X												
222	TP104_0.2-0.3	Oct 20, 2021						X												
223	TP105_0.2-0.3	Oct 20, 2021						X												
224	TP106_0.2-0.3	Oct 20, 2021						X												
225	TP107_0.2-0.3	Oct 20, 2021						X												
226	TP108_0.2-0.3	Oct 20, 2021						X												
227	TP109_0.2-0.3	Oct 20, 2021						X												
228	TP110_0.2-0.3	Oct 20, 2021						X												
229	TP111_0.2-0.3	Oct 20, 2021						X												

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Melbourne Laboratory - NATA # 1261 Site # 1254																				
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																				
Mayfield Laboratory - NATA # 1261 Site # 25079																				
Perth Laboratory - NATA # 2377 Site # 2370																				
External Laboratory																				
230	TP112_0.2-0.3	Oct 20, 2021						X												
231	TP113_0.2-0.3	Oct 20, 2021						X												
232	TP114_0.2-0.3	Oct 20, 2021						X												
233	TP115_0.2-0.3	Oct 20, 2021						X												
234	TP116_0.2-0.3	Oct 20, 2021						X												
235	TP117_0.2-0.3	Oct 20, 2021						X												
236	TP118_0.2-0.3	Oct 20, 2021						X												
237	TP119_0.2-0.3	Oct 20, 2021						X												
238	TP121_0.2-0.3	Oct 20, 2021						X												
239	TP122_0.2-0.3	Oct 20, 2021						X												
240	TP123_0.2-0.3	Oct 20, 2021						X												

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Melbourne Laboratory - NATA # 1261 Site # 1254																				
Sydney Laboratory - NATA # 1261 Site # 18217				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																				
Mayfield Laboratory - NATA # 1261 Site # 25079																				
Perth Laboratory - NATA # 2377 Site # 2370																				
External Laboratory																				
241	TP124_0.2-0.3	Oct 20, 2021						X												
242	TP125_0.2-0.3	Oct 20, 2021						X												
243	TP126_0.2-0.3	Oct 20, 2021						X												
244	TP127_0.2-0.3	Oct 21, 2021						X												
245	TP128_0.2-0.3	Oct 21, 2021						X												
246	TP129_0.2-0.3	Oct 21, 2021						X												
247	TP131_0.2-0.3	Oct 21, 2021						X												
248	TP132_0.2-0.3	Oct 21, 2021						X												
249	TP133_0.2-0.3	Oct 21, 2021						X												
250	TP134_0.2-0.3	Oct 21, 2021						X												
251	TP135_0.2-0.3	Oct 21, 2021						X												

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Melbourne Laboratory - NATA # 1261 Site # 1254																							
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794																							
Mayfield Laboratory - NATA # 1261 Site # 25079																							
Perth Laboratory - NATA # 2377 Site # 2370																							
External Laboratory																							
252	TP136_0.2-0.3	Oct 21, 2021		Soil	S21-No02807					X													
Test Counts						8	8	30	8	119	30	30	30	28	7	2	121	42	4	5	10		

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram	mg/L: milligrams per litre	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	US Department of Defense Quality Systems Manual Version
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
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

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

Results <10 times the LOR : No Limit

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

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

NOTE: pH duplicates are reported as a range not as RPD

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

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

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
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							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Conductivity (1:5 aqueous extract at 25°C as rec.)	uS/cm	< 10			10	Pass	
Method Blank							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
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							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Benzene	mg/kg	< 0.1			0.1	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	89			70-130	Pass	
TRH C10-C14	%	95			70-130	Pass	
Naphthalene	%	99			70-130	Pass	
Naphthalene	%	78			70-130	Pass	
TRH C6-C10	%	87			70-130	Pass	
TRH C6-C10	%	80			70-130	Pass	
TRH >C10-C16	%	95			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	93			70-130	Pass	
Toluene	%	90			70-130	Pass	
Ethylbenzene	%	90			70-130	Pass	
m&p-Xylenes	%	90			70-130	Pass	
o-Xylene	%	88			70-130	Pass	
Xylenes - Total*	%	90			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	102			70-130	Pass	
Acenaphthylene	%	108			70-130	Pass	

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Anthracene	%	113		70-130	Pass	
Benz(a)anthracene	%	98		70-130	Pass	
Benzo(a)pyrene	%	104		70-130	Pass	
Benzo(b&j)fluoranthene	%	106		70-130	Pass	
Benzo(g,h,i)perylene	%	95		70-130	Pass	
Benzo(k)fluoranthene	%	108		70-130	Pass	
Chrysene	%	99		70-130	Pass	
Dibenz(a,h)anthracene	%	89		70-130	Pass	
Fluoranthene	%	104		70-130	Pass	
Fluorene	%	109		70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	94		70-130	Pass	
Naphthalene	%	102		70-130	Pass	
Phenanthrene	%	101		70-130	Pass	
Pyrene	%	105		70-130	Pass	
LCS - % Recovery						
Heavy Metals						
Arsenic	%	96		80-120	Pass	
Cadmium	%	98		80-120	Pass	
Chromium	%	98		80-120	Pass	
Copper	%	98		80-120	Pass	
Lead	%	96		80-120	Pass	
Mercury	%	97		80-120	Pass	
Nickel	%	97		80-120	Pass	
Zinc	%	94		80-120	Pass	
LCS - % Recovery						
Conductivity (1:5 aqueous extract at 25°C as rec.)	%	84		70-130	Pass	
Resistivity*	%	84		70-130	Pass	
LCS - % Recovery						
Organochlorine Pesticides						
Chlordanes - Total	%	79		70-130	Pass	
4,4'-DDD	%	77		70-130	Pass	
4,4'-DDE	%	78		70-130	Pass	
4,4'-DDT	%	83		70-130	Pass	
a-HCH	%	78		70-130	Pass	
Aldrin	%	77		70-130	Pass	
b-HCH	%	76		70-130	Pass	
d-HCH	%	74		70-130	Pass	
Dieldrin	%	80		70-130	Pass	
Endosulfan I	%	79		70-130	Pass	
Endosulfan II	%	74		70-130	Pass	
Endosulfan sulphate	%	89		70-130	Pass	
Endrin	%	89		70-130	Pass	
Endrin aldehyde	%	81		70-130	Pass	
Endrin ketone	%	85		70-130	Pass	
g-HCH (Lindane)	%	78		70-130	Pass	
Heptachlor	%	87		70-130	Pass	
Heptachlor epoxide	%	77		70-130	Pass	
Hexachlorobenzene	%	74		70-130	Pass	
Methoxychlor	%	91		70-130	Pass	
LCS - % Recovery						
Polychlorinated Biphenyls						
Aroclor-1016	%	71		70-130	Pass	
Aroclor-1260	%	73		70-130	Pass	
LCS - % Recovery						

Test			Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Volatile Organics								
1.1-Dichloroethene			%	89		70-130	Pass	
1.1.1-Trichloroethane			%	88		70-130	Pass	
1.2-Dichlorobenzene			%	97		70-130	Pass	
1.2-Dichloroethane			%	102		70-130	Pass	
Benzene			%	93		70-130	Pass	
Ethylbenzene			%	87		70-130	Pass	
m&p-Xylenes			%	87		70-130	Pass	
o-Xylene			%	87		70-130	Pass	
Toluene			%	90		70-130	Pass	
Trichloroethene			%	96		70-130	Pass	
Xylenes - Total*			%	87		70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Heavy Metals								
				Result 1				
Arsenic	S21-No02558	CP	%	87		75-125	Pass	
Cadmium	S21-No02558	CP	%	96		75-125	Pass	
Chromium	S21-No02558	CP	%	87		75-125	Pass	
Copper	S21-No02558	CP	%	89		75-125	Pass	
Lead	S21-No02558	CP	%	83		75-125	Pass	
Mercury	S21-No02558	CP	%	100		75-125	Pass	
Nickel	S21-No02558	CP	%	88		75-125	Pass	
Zinc	S21-No02558	CP	%	86		75-125	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons								
				Result 1				
TRH C6-C9	S21-No02584	CP	%	83		70-130	Pass	
Naphthalene	S21-No02584	CP	%	77		70-130	Pass	
TRH C6-C10	S21-No02584	CP	%	80		70-130	Pass	
Spike - % Recovery								
BTEX								
				Result 1				
Benzene	S21-No02584	CP	%	89		70-130	Pass	
Toluene	S21-No02584	CP	%	87		70-130	Pass	
Ethylbenzene	S21-No02584	CP	%	82		70-130	Pass	
m&p-Xylenes	S21-No02584	CP	%	84		70-130	Pass	
o-Xylene	S21-No02584	CP	%	84		70-130	Pass	
Xylenes - Total*	S21-No02584	CP	%	84		70-130	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons								
				Result 1				
Acenaphthene	S21-No02586	CP	%	83		70-130	Pass	
Acenaphthylene	S21-No02586	CP	%	87		70-130	Pass	
Anthracene	S21-No02586	CP	%	87		70-130	Pass	
Benz(a)anthracene	S21-No02586	CP	%	84		70-130	Pass	
Benzo(a)pyrene	S21-No02586	CP	%	85		70-130	Pass	
Benzo(b&j)fluoranthene	S21-No02586	CP	%	88		70-130	Pass	
Benzo(g,h,i)perylene	S21-No02586	CP	%	77		70-130	Pass	
Benzo(k)fluoranthene	S21-No02586	CP	%	83		70-130	Pass	
Chrysene	S21-No02586	CP	%	73		70-130	Pass	
Dibenz(a,h)anthracene	S21-No02586	CP	%	80		70-130	Pass	
Fluoranthene	S21-No02586	CP	%	81		70-130	Pass	
Fluorene	S21-No02586	CP	%	85		70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-No02586	CP	%	82		70-130	Pass	
Naphthalene	S21-No02586	CP	%	81		70-130	Pass	
Phenanthrene	S21-No02586	CP	%	78		70-130	Pass	
Pyrene	S21-No02586	CP	%	84		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Organochlorine Pesticides				Result 1				
Chlordanes - Total	S21-No02586	CP	%	83		70-130	Pass	
4.4'-DDD	S21-No02586	CP	%	74		70-130	Pass	
4.4'-DDE	S21-No02586	CP	%	87		70-130	Pass	
a-HCH	S21-No02586	CP	%	77		70-130	Pass	
Aldrin	S21-No02586	CP	%	87		70-130	Pass	
b-HCH	S21-No02586	CP	%	75		70-130	Pass	
d-HCH	S21-No02586	CP	%	81		70-130	Pass	
Dieldrin	S21-No02586	CP	%	82		70-130	Pass	
Endosulfan I	S21-No02586	CP	%	78		70-130	Pass	
Endosulfan II	S21-No02586	CP	%	80		70-130	Pass	
Endosulfan sulphate	S21-No02586	CP	%	78		70-130	Pass	
Endrin	S21-No02586	CP	%	78		70-130	Pass	
Endrin ketone	S21-No02586	CP	%	76		70-130	Pass	
g-HCH (Lindane)	S21-No02586	CP	%	86		70-130	Pass	
Heptachlor	S21-No02586	CP	%	77		70-130	Pass	
Heptachlor epoxide	S21-No02586	CP	%	83		70-130	Pass	
Hexachlorobenzene	S21-No02586	CP	%	82		70-130	Pass	
Spike - % Recovery								
Polychlorinated Biphenyls				Result 1				
Aroclor-1016	S21-No02586	CP	%	85		70-130	Pass	
Aroclor-1260	S21-No02586	CP	%	84		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S21-No02600	CP	%	98		75-125	Pass	
Cadmium	S21-No02600	CP	%	102		75-125	Pass	
Chromium	S21-No02600	CP	%	95		75-125	Pass	
Copper	S21-No02600	CP	%	88		75-125	Pass	
Lead	S21-No02600	CP	%	89		75-125	Pass	
Mercury	S21-No02600	CP	%	98		75-125	Pass	
Nickel	S21-No02600	CP	%	92		75-125	Pass	
Zinc	S21-No02600	CP	%	124		75-125	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons				Result 1				
TRH C10-C14	S21-No02601	CP	%	108		70-130	Pass	
TRH >C10-C16	S21-No02601	CP	%	102		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S21-No02602	CP	%	90		75-125	Pass	
Cadmium	S21-No02602	CP	%	91		75-125	Pass	
Chromium	S21-No02602	CP	%	83		75-125	Pass	
Copper	S21-No02602	CP	%	86		75-125	Pass	
Mercury	S21-No02602	CP	%	97		75-125	Pass	
Nickel	S21-No02602	CP	%	87		75-125	Pass	
Zinc	S21-No02602	CP	%	89		75-125	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	S21-No02607	CP	%	86		70-130	Pass	
Acenaphthylene	S21-No02607	CP	%	84		70-130	Pass	
Anthracene	S21-No02607	CP	%	90		70-130	Pass	
Benz(a)anthracene	S21-No02607	CP	%	79		70-130	Pass	
Benzo(a)pyrene	S21-No02607	CP	%	88		70-130	Pass	
Benzo(b&j)fluoranthene	S21-No02607	CP	%	84		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Benzo(g,h,i)perylene	S21-No02607	CP	%	76		70-130	Pass	
Benzo(k)fluoranthene	S21-No02607	CP	%	96		70-130	Pass	
Chrysene	S21-No02607	CP	%	81		70-130	Pass	
Dibenz(a,h)anthracene	S21-No02607	CP	%	70		70-130	Pass	
Fluoranthene	S21-No02607	CP	%	80		70-130	Pass	
Fluorene	S21-No02607	CP	%	90		70-130	Pass	
Indeno(1,2,3-cd)pyrene	S21-No02607	CP	%	74		70-130	Pass	
Naphthalene	S21-No02607	CP	%	87		70-130	Pass	
Phenanthrene	S21-No02607	CP	%	79		70-130	Pass	
Pyrene	S21-No02607	CP	%	79		70-130	Pass	
Spike - % Recovery								
Organochlorine Pesticides				Result 1				
Chlordanes - Total	S21-No02607	CP	%	78		70-130	Pass	
4,4'-DDD	S21-No02607	CP	%	88		70-130	Pass	
4,4'-DDE	S21-No02607	CP	%	77		70-130	Pass	
4,4'-DDT	S21-No02607	CP	%	86		70-130	Pass	
a-HCH	S21-No02607	CP	%	70		70-130	Pass	
Aldrin	S21-No02607	CP	%	78		70-130	Pass	
b-HCH	S21-No02607	CP	%	73		70-130	Pass	
d-HCH	S21-No02607	CP	%	71		70-130	Pass	
Dieldrin	S21-No02607	CP	%	81		70-130	Pass	
Endosulfan II	S21-No02607	CP	%	81		70-130	Pass	
Endosulfan sulphate	S21-No02607	CP	%	75		70-130	Pass	
Endrin	S21-No02607	CP	%	92		70-130	Pass	
Endrin ketone	S21-No02607	CP	%	77		70-130	Pass	
g-HCH (Lindane)	S21-No02607	CP	%	76		70-130	Pass	
Heptachlor	S21-No02607	CP	%	84		70-130	Pass	
Hexachlorobenzene	S21-No02607	CP	%	75		70-130	Pass	
Methoxychlor	S21-No02607	CP	%	104		70-130	Pass	
Spike - % Recovery								
Polychlorinated Biphenyls				Result 1				
Aroclor-1016	S21-No02607	CP	%	71		70-130	Pass	
Aroclor-1260	S21-No02607	CP	%	73		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S21-No02633	CP	%	84		75-125	Pass	
Cadmium	S21-No02633	CP	%	90		75-125	Pass	
Chromium	S21-No02633	CP	%	89		75-125	Pass	
Copper	S21-No02633	CP	%	85		75-125	Pass	
Lead	S21-No02633	CP	%	83		75-125	Pass	
Mercury	S21-No02633	CP	%	88		75-125	Pass	
Nickel	S21-No02633	CP	%	88		75-125	Pass	
Zinc	S21-No02633	CP	%	93		75-125	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S21-No02653	CP	%	107		75-125	Pass	
Cadmium	S21-No02653	CP	%	96		75-125	Pass	
Chromium	S21-No02653	CP	%	89		75-125	Pass	
Copper	S21-No02653	CP	%	85		75-125	Pass	
Lead	S21-No02653	CP	%	88		75-125	Pass	
Mercury	S21-No02653	CP	%	93		75-125	Pass	
Nickel	S21-No02653	CP	%	85		75-125	Pass	
Zinc	S21-No02653	CP	%	98		75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C as rec.)	S21-No02562	CP	uS/cm	46	33	32	30%	Fail	Q15
pH (1:5 Aqueous extract at 25°C as rec.)	S21-No02562	CP	pH Units	6.3	6.4	<1	30%	Pass	
Resistivity*	S21-No02562	CP	ohm.m	220	300	32	30%	Fail	Q02
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-No02567	CP	%	21	20	5.0	30%	Pass	
Chloride	W21-No03078	NCP	mg/kg	69	68	1.0	30%	Pass	
Sulphate (as SO4)	W21-No03078	NCP	mg/kg	44	44	1.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S21-No02575	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Naphthalene	S21-No02575	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-No02575	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-No02575	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-No02575	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-No02575	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-No02575	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-No02575	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-No02575	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-No02579	CP	%	8.5	9.5	11	30%	Pass	
Conductivity (1:5 aqueous extract at 25°C as rec.)	S21-No02579	CP	uS/cm	31	29	7.0	30%	Pass	
pH (1:5 Aqueous extract at 25°C as rec.)	S21-No02579	CP	pH Units	6.6	6.5	<1	30%	Pass	
Resistivity*	S21-No02579	CP	ohm.m	320	340	7.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	S21-No02585	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-No02585	CP	mg/kg	68	62	8.0	30%	Pass	
TRH C29-C36	S21-No02585	CP	mg/kg	110	97	12	30%	Pass	
TRH >C10-C16	S21-No02585	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-No02585	CP	mg/kg	150	130	11	30%	Pass	
TRH >C34-C40	S21-No02585	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-No02585	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-No02585	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-No02585	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-No02585	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-No02585	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-No02585	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g,h,i)perylene	S21-No02585	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-No02585	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-No02585	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,h)anthracene	S21-No02585	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-No02585	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-No02585	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-No02585	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Naphthalene	S21-No02585	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S21-No02585	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S21-No02585	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S21-No02585	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S21-No02585	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Polychlorinated Biphenyls				Result 1	Result 2	RPD		
Aroclor-1016	S21-No02585	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1221	S21-No02585	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1232	S21-No02585	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1242	S21-No02585	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1248	S21-No02585	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1254	S21-No02585	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1260	S21-No02585	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Total PCB*	S21-No02585	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S21-No02589	CP	mg/kg	3.7	6.2	50	30%	Fail Q15
Cadmium	S21-No02589	CP	mg/kg	< 0.4	0.6	47	30%	Fail Q15
Chromium	S21-No02589	CP	mg/kg	7.5	12	48	30%	Fail Q15
Copper	S21-No02589	CP	mg/kg	11	17	39	30%	Fail Q15
Lead	S21-No02589	CP	mg/kg	13	20	40	30%	Fail Q15
Mercury	S21-No02589	CP	mg/kg	1.4	2.2	43	30%	Fail Q02
Nickel	S21-No02589	CP	mg/kg	< 5	6.9	34	30%	Fail Q15
Zinc	S21-No02589	CP	mg/kg	37	61	50	30%	Fail Q15
Duplicate								
% Moisture				Result 1	Result 2	RPD		
% Moisture	S21-No02589	CP	%	6.9	6.6	5.0	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S21-No02590	CP	mg/kg	16	8.3	65	30%	Fail Q15
Cadmium	S21-No02590	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S21-No02590	CP	mg/kg	30	16	61	30%	Fail Q15
Copper	S21-No02590	CP	mg/kg	47	26	58	30%	Fail Q15

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Lead	S21-No02590	CP	mg/kg	36	19	62	30%	Fail	Q15
Mercury	S21-No02590	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-No02590	CP	mg/kg	25	14	56	30%	Fail	Q15
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S21-No02600	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S21-No02600	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-No02600	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-No02600	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Naphthalene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-No02600	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S21-No02600	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-No02600	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-No02600	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-No02600	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-No02600	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-No02600	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-No02600	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-No02600	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-No02600	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)anthracene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g,h,i)perylene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,h)anthracene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1,2,3-cd)pyrene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-No02600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
% Moisture	S21-No02601	CP	%	20	20	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1,1-Dichloroethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1,1-Dichloroethene	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1,1,1-Trichloroethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1,1,1,2-Tetrachloroethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1,1,2-Trichloroethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1,1,2,2-Tetrachloroethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1,2-Dibromoethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1,2-Dichlorobenzene	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1,2-Dichloroethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1.2-Dichloropropane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.3-Trichloropropane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.4-Trimethylbenzene	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichlorobenzene	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichloropropane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3.5-Trimethylbenzene	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.4-Dichlorobenzene	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Butanone (MEK)	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Propanone (Acetone)	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chlorotoluene	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Methyl-2-pentanone (MIBK)	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Allyl chloride	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromobenzene	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromochloromethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromodichloromethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromoform	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromomethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon disulfide	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon Tetrachloride	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chlorobenzene	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroform	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloromethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.2-Dichloroethene	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.3-Dichloropropene	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromochloromethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromomethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorodifluoromethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Iodomethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Isopropyl benzene (Cumene)	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Methylene Chloride	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Styrene	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Tetrachloroethene	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1.2-Dichloroethene	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1.3-Dichloropropene	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichloroethene	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichlorofluoromethane	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Vinyl chloride	S21-No17443	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C10-C14	S21-No02606	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	S21-No02606	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH C29-C36	S21-No02606	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C10-C16	S21-No02606	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	S21-No02606	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	S21-No02606	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S21-No02606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S21-No02606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S21-No02606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S21-No02606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S21-No02606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S21-No02606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Benzo(g,h,i)perylene	S21-No02606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-No02606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-No02606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,h)anthracene	S21-No02606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-No02606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-No02606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-No02606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-No02606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-No02606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-No02606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-No02611	CP	mg/kg	7.0	8.6	20	30%	Pass	
Cadmium	S21-No02611	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-No02611	CP	mg/kg	18	20	13	30%	Pass	
Copper	S21-No02611	CP	mg/kg	25	31	21	30%	Pass	
Lead	S21-No02611	CP	mg/kg	18	20	12	30%	Pass	
Mercury	S21-No02611	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-No02611	CP	mg/kg	9.2	12	28	30%	Pass	
Zinc	S21-No02611	CP	mg/kg	35	45	26	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-No02613	CP	mg/kg	7.3	6.3	15	30%	Pass	
Cadmium	S21-No02613	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-No02613	CP	mg/kg	19	18	6.0	30%	Pass	
Copper	S21-No02613	CP	mg/kg	26	25	7.0	30%	Pass	
Lead	S21-No02613	CP	mg/kg	24	24	2.0	30%	Pass	
Mercury	S21-No02613	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-No02613	CP	mg/kg	17	15	14	30%	Pass	
Zinc	S21-No02613	CP	mg/kg	59	52	13	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	S21-No02618	CP	mg/kg	22	25	13	30%	Pass	
TRH C15-C28	S21-No02618	CP	mg/kg	170	190	10	30%	Pass	
TRH C29-C36	S21-No02618	CP	mg/kg	110	160	34	30%	Fail	Q15
TRH >C10-C16	S21-No02618	CP	mg/kg	94	100	7.0	30%	Pass	
TRH >C16-C34	S21-No02618	CP	mg/kg	180	220	21	30%	Pass	
TRH >C34-C40	S21-No02618	CP	mg/kg	< 100	100	43	30%	Fail	Q15
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g,h,i)perylene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,h)anthracene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Phenanthrene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S21-No02618	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-HCH	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-HCH	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S21-No02618	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Toxaphene	S21-No02618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Polychlorinated Biphenyls				Result 1	Result 2	RPD		
Aroclor-1016	S21-No02618	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1221	S21-No02618	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1232	S21-No02618	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1242	S21-No02618	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1248	S21-No02618	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1254	S21-No02618	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1260	S21-No02618	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Total PCB*	S21-No02618	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Duplicate								
% Moisture	S21-No02623	CP	%	22	22	1.0	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S21-No02624	CP	mg/kg	4.7	5.7	20	30%	Pass
Cadmium	S21-No02624	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S21-No02624	CP	mg/kg	21	24	11	30%	Pass
Copper	S21-No02624	CP	mg/kg	29	36	22	30%	Pass
Lead	S21-No02624	CP	mg/kg	15	18	20	30%	Pass
Mercury	S21-No02624	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S21-No02624	CP	mg/kg	16	19	12	30%	Pass
Zinc	S21-No02624	CP	mg/kg	43	52	18	30%	Pass
Duplicate								
% Moisture	S21-No02633	CP	%	10	9.8	7.0	30%	Pass

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-No02634	CP	mg/kg	10	15	39	30%	Fail	Q15
Cadmium	S21-No02634	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-No02634	CP	mg/kg	19	26	34	30%	Fail	Q15
Copper	S21-No02634	CP	mg/kg	28	40	34	30%	Fail	Q15
Lead	S21-No02634	CP	mg/kg	24	34	37	30%	Fail	Q15
Mercury	S21-No02634	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-No02634	CP	mg/kg	19	28	36	30%	Fail	Q15
Zinc	S21-No02634	CP	mg/kg	58	85	38	30%	Fail	Q15
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C as rec.)	S21-No02642	CP	uS/cm	29	25	15	30%	Pass	
pH (1:5 Aqueous extract at 25°C as rec.)	S21-No02642	CP	pH Units	6.0	6.0	<1	30%	Pass	
Resistivity*	S21-No02642	CP	ohm.m	340	400	15	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-No02643	CP	%	18	21	17	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S21-No02653	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Naphthalene	S21-No02653	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-No02653	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-No02653	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-No02653	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-No02653	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-No02653	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-No02653	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-No02653	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-No02657	CP	%	14	14	3.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-No02667	CP	%	11	9.1	16	30%	Pass	
pH (1:5 Aqueous extract at 25°C as rec.)	S21-No02667	CP	pH Units	7.5	7.1	<1	30%	Pass	

Comments

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
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
Q02	The duplicate %RPD is outside the recommended acceptance criteria. Further analysis indicates sample heterogeneity as the cause
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Emma Beesley	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Charl Du Preez	Senior Analyst-Inorganic (NSW)
John Nguyen	Senior Analyst-Metal (NSW)
Roopesh Rangarajan	Senior Analyst-Volatile (NSW)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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Company	ALLIANCE GEOTECHNICAL	Project No	13546	Project Manager	Jacob W	Sampler(s)	SJ						
Address	10 WELDER ROAD, SEVEN HILLS NSW	Project Name	Kemps Creek			Handed over by							
Contact Name	Sam J	Analyses <small>(Note: Where negats are requested, please specify 'Total' or 'Filterer' / SUITE code must be used to submit SUITE phasing.)</small>	Suite B7: TRH, BTEXM, PAH, Metals	Suite B13: OCP, PCB	EC and pH	L2 Aggressivity Suite	Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P	E.Coli and total coliforms - thermotolerant	TRH & BTEX	VOC	HOLD	Email for Invoice	admin@allgeo.com.au
Phone No	430214402		Suite B7: TRH, BTEXM, PAH, Metals	Suite B13: OCP, PCB	EC and pH	L2 Aggressivity Suite	Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P	E.Coli and total coliforms - thermotolerant	TRH & BTEX	VOC	HOLD	Email for Results	samiones@allgeo.com.au , enviro@allgeo.com.au , & jacob.walker@allgeo.com.au
Special Directions			Suite B7: TRH, BTEXM, PAH, Metals	Suite B13: OCP, PCB	EC and pH	L2 Aggressivity Suite	Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P	E.Coli and total coliforms - thermotolerant	TRH & BTEX	VOC	HOLD	Containers	Turnaround Time (TAT) Requirements (Default will be 5 days if not ticked!)
Purchase Order			Suite B7: TRH, BTEXM, PAH, Metals	Suite B13: OCP, PCB	EC and pH	L2 Aggressivity Suite	Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P	E.Coli and total coliforms - thermotolerant	TRH & BTEX	VOC	HOLD	1L Plastic 250mL Plastic 125mL Plastic 200mL Amber Glass 40mL VOA vial 500mL PFAS Bottle Jar (Glass or HDPE) <small>Citric / Acetic/AS 1964 - WA Gunbottle</small>	<input type="checkbox"/> Overnight (9am)* <input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Day* <input type="checkbox"/> 3 Day* <input type="checkbox"/> 4 Day* <input type="checkbox"/> Other ()
Quote ID No												Sample Comments / Dangerous Goods Hazard Warning	

No	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))	Suite B7: TRH, BTEXM, PAH, Metals	Suite B13: OCP, PCB	EC and pH	L2 Aggressivity Suite	Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P	E.Coli and total coliforms - thermotolerant	TRH & BTEX	VOC	HOLD	1L Plastic	250mL Plastic	125mL Plastic	200mL Amber Glass	40mL VOA vial	500mL PFAS Bottle	Jar (Glass or HDPE)	Sample Comments / Dangerous Goods Hazard Warning		
1	DW13	15/10/21	S									X								X		
2	DW14	15/10/21	S									X								X		
3	DW15	15/10/21	S									X								X		
4	DW16	15/10/21	S									X								X		
5	SW09	15/10/21	W	X	X									X	X	X						
6	SW10	15/10/21	W	X	X									X	X	X						
7	DS11	15/10/21	S	X																X		
8	DS12	15/10/21	S	X																X		
9	TP50 0.0-0.1	15/10/21	S	X	X															X		
10	TP50 0.5-0.6	15/10/21	S									X								X		
11	TP51 0.0-0.1	15/10/21	S	X	X															X		
12	TP51 1.0-1.1	15/10/21	S									X								X		
13	TP51 2.0-2.1	15/10/21	S									X								X		
14	TP51 2.3-2.4	15/10/21	S									X								X		
15	TP52 0.0-0.1	15/10/21	S	X	X	X														X		
16	TP52 0.5-0.6	15/10/21	S			X														X		
17	TP52 1.0-1.1	15/10/21	S			X														X		
18	TP52 1.5-1.6	15/10/21	S			X														X		
19	TP52 2.0-2.1	15/10/21	S			X														X		
20	TP52 2.5-2.6	15/10/21	S			X	X													X		
21	TP53 0.0-0.1	15/10/21	S	X	X															X		
22	TP53 0.3-0.4	15/10/21	S									X								X		
Total Counts				8	6	6	1					9							2	2	2	20

Method of Shipment	<input checked="" type="checkbox"/> Courier (#) <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal	Name	SJ	Signature		Date	22/10/2021	Time			
Eurofins mgt Laboratory Use Only	Received By	A. Bajer	SYD BNE MEL PER ADL NTL DRW	Signature		Date	23/10/21	Time	1540h	Temperature	17.2°C
	Received By		SYD BNE MEL PER ADL NTL DRW	Signature		Date	___/___/___	Time	___:___	Report No	836977



CHAIN OF CUSTODY RECORD

ABN 50 005 085 521

Sydney Laboratory
Unit F3 Bld.F, 16 Mars Rd, Lane Cove West, NSW 2056
02 9900 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory
Unit 1, 21 Smallwood Pl., Murarie, QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory
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08 9251 9500 EnviroSampleWA@eurofins.com

Melbourne Laboratory
2 Kingston Town Close, Oakleigh, VIC 3166
03 8564 5000 EnviroSampleVic@eurofins.com

Company	ALLIANCE GEOTECHNICAL			Project No	13546			Project Manager	Jacob W			Sampler(s)	SJ		
Address	10 WELDER ROAD, SEVEN HILLS NSW			Project Name	Kemps Creek			EDD Format (ESdat, EQuls, Custom)				Handed over by			
Contact Name	Sam J			Note: Where ready-made reagents are required, please specify 'Total' or 'Filtered' (SUITE) code must be used to attract SUITE pricing. Analyses TRH/BTEX, 8 Heavy Metals Suite B7: TRH, BTEXN, PAH, Metals Suite B13: OCP, PCB EC and pH L2 Aggressivity Suite Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P E.Coli and total coliforms - thermotolerant TRH & BTEX VOC HOLD							Email for Invoice	admin@allgeo.com.au			
Phone No	430214402										Email for Results	samjones@allgeo.com.au , enviro@allgeo.com.au , & jacob.walker@allgeo.com.au			
Special Directions											Turnaround Time (TAT) Requirements (Default will be 5 days if not specified) <input type="checkbox"/> Overnight (9am)* <input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Day* <input type="checkbox"/> 3 Day* <input type="checkbox"/> 4 Day* <input type="checkbox"/> Other ()				
Purchase Order											Containers 1L Plastic 250mL Plastic 125mL Plastic 200mL Amber Glass 40mL VOA vial 500mL PFAS Bottle Jar (Glass or HDPE) <small>Other Asbestos AS4564 - WA Guidelines</small>				
Quote ID No													Sample Comments / Dangerous Goods Hazard Warning		

No	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))	TRH/BTEX, 8 Heavy Metals	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	EC and pH	L2 Aggressivity Suite	Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P	E.Coli and total coliforms - thermotolerant	TRH & BTEX	VOC	HOLD	1L Plastic	250mL Plastic	125mL Plastic	200mL Amber Glass	40mL VOA vial	500mL PFAS Bottle	Jar (Glass or HDPE)	Other Asbestos AS4564 - WA Guidelines	Sample Comments / Dangerous Goods Hazard Warning				
23	TP54 0.0-0.1	15/10/21	S		X	X																X				
24	TP54 1.0-1.1	15/10/21	S										X										X			
25	TP54 2.0-2.1	15/10/21	S										X										X			
26	TP54 2.4-2.5	15/10/21	S										X										X			
27	DW17	15/10/21	S										X										X			
28	DW18	15/10/21	S										X										X			
29	DW19	15/10/21	S										X										X			
30	DS13	18/10/21	S		X																		X			
31	DS14	18/10/21	S		X																		X			
32	SW11	18/10/21	w		X	X									X	X	X						X			
33	SW12	18/10/21	w		X	X									X	X	X						X			
34	TP61 0.0-0.1	18/10/21	S	X																			X			
35	TP61 0.5-0.6	18/10/21	S										X										X			
36	TP61 1.0-1.1	18/10/21	S										X										X			
37	TP62 0.0-0.1	18/10/21	S	X			X																X			
38	TP62 0.5-0.6	18/10/21	S				X																X			
39	TP62 1.0-1.1	18/10/21	S				X																X			
40	TP62 1.5-1.6	18/10/21	S				X	X															X			
41	TP62 2.0-2.1	18/10/21	S				X																X			
42	TP62 2.5-2.6	18/10/21	S				X																X			
43	TP63 0.0-0.1	18/10/21	S	X																			X			
44	TP63 0.5-0.6	18/10/21	S										X										X			
Total Counts				3	5	3	6	1					9									2	2	2	20	

Method of Shipment	<input checked="" type="checkbox"/> Courier (#) <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal		Name	SJ		Signature		Date	22/10/2021		Time	
Eurofins mgt Laboratory Use Only	Received By	<i>A.B</i>	SYD BNE MEL PER ADL NTL DRW	Signature	<i>AS</i>	Date	<i>28/10/21</i>	Time	<i>1.54pm</i>	Temperature	<i>17.20c</i>	
	Received By		SYD BNE MEL PER ADL NTL DRW	Signature		Date	<i>___/___/___</i>	Time	<i>___</i>	Report No	<i>836977</i>	

836978



CHAIN OF CUSTODY RECORD

ABN 50 005 065 521

Sydney Laboratory
Unit F3 Bld.F, 16 Mars Rd, Lane Cove West, NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory
Unit 1, 21 Smallwood Pl., Murarie, QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory
Unit 2, 91 Leach Highway, Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

Melbourne Laboratory
2 Kingston Town Close, Oakleigh, VIC 3166
03 8564 5000 EnviroSampleVic@eurofins.com

Company	ALLIANCE GEOTECHNICAL			Project No	13546			Project Manager	Jacob W			Sampler(s)	SJ					
Address	10 WELDER ROAD, SEVEN HILLS NSW			Project Name	Kemps Creek			EDD Format (ESdat, EQUIS, Custom)				Handed over by						
Contact Name	Sam J			Analytes <small>(Note: Where metals are required, please specify Total or Filterable - SUITE code must be used to attach SUITE pricing.)</small>	TRH/BTEXN, 8 HM			Suite B7: TRH, BTEXN, PAH, Metals			Suite B13: OCP, PCB			EC and pH				
Phone No	430214402				L2 Aggressivity Suite			Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P			E.Coli and total coliforms - thermotolerant			TRH & BTEX				
Special Directions											VOC			HOLD				
Purchase Order																		
Quote ID No																		
Email for Invoice												admin@allgeo.com.au						
Email for Results												samjones@allgeo.com.au , enviro@allgeo.com.au , & jacob.walker@allgeo.com.au						
										Containers		Turnaround Time (TAT) Requirements (Default will be 5 days, if not ticked)						
										1L Plastic	250mL Plastic	125mL Plastic	200mL Amber Glass	40mL VOA vial	500mL PFAS Bottle	Jar (Glass or HDPE)	Other (Agencies AS4564 - WA Guidelines)	<input type="checkbox"/> Overnight (9am)* <input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Day* <input type="checkbox"/> 3 Day* <input checked="" type="checkbox"/> 5 Day* <input type="checkbox"/> Other ()
Sample Comments / Dangerous Goods Hazard Warning																		

No	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))	TRH/BTEXN, 8 HM	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	EC and pH	L2 Aggressivity Suite	Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P	E.Coli and total coliforms - thermotolerant	TRH & BTEX	VOC	HOLD	1L Plastic	250mL Plastic	125mL Plastic	200mL Amber Glass	40mL VOA vial	500mL PFAS Bottle	Jar (Glass or HDPE)	Other (Agencies AS4564 - WA Guidelines)	Sample Comments / Dangerous Goods Hazard Warning		
67	DS15	18/10/21	S		X																	X		
68	DS16	18/10/21	S		X																		X	
69	DW20	18/10/21	S									X											X	
70	DW21	18/10/21	S									X											X	
71	TP141 0.0-0.1	18/10/21	S		X	X						X											X	
72	TP141 0.5-0.6	18/10/21	S									X											X	
73	TP141 1.5-1.6	18/10/21	S									X											X	
74	TP142 0.0-0.1	18/10/21	S									X											X	
75	TP142 0.5-0.6	18/10/21	S		X	X						X											X	
76	TP142 1.5-1.6	18/10/21	S									X											X	
77	DR16 0.0-0.1	19/10/21	S		X							X											X	
78	DR16 1.0-1.1	19/10/21	S									X											X	
79	DR16 2.0-2.1	19/10/21	S									X											X	
80	DR17 0.0-0.1	19/10/21	S		X							X											X	
81	DR17 1.0-1.1	19/10/21	S									X											X	
82	TP70 0.0-0.1	19/10/21	S	X							X												X	
83	TP70 0.3-0.4	19/10/21	S									X											X	
84	TP71 0.0-0.1	19/10/21	S	X							X												X	
85	TP71 0.3-0.4	19/10/21	S									X											X	
86	SW15	19/10/21	w		X	X									X	X	X							
87	SW16	19/10/21	w		X	X									X	X	X							
88	DS17	19/10/21	S		X																		X	
Total Counts				2	9	4					2	11												

Method of Shipment	<input checked="" type="checkbox"/> Courier (#) <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal		Name	SJ		Signature		Date	22/10/2021		Time	
Eurofins mgt Laboratory Use Only	Received By	A.O	SYD BNE MEL PER ADL NTL DRW	Signature		Date	23/10/21	Time	1:54	Temperature	12.5°C	
	Received By		SYD BNE MEL PER ADL NTL DRW	Signature		Date	___/___/___	Time	___:___	Report No	236977	



CHAIN OF CUSTODY RECORD

ABN 50 005 085 521

Sydney Laboratory
Unit F3 BldF, 16 Mars Rd, Lane Cove West, NSW 2086
02 9900 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory
Unit 1, 21 Smallwood Pl, Murarie, QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory
Unit 2, 91 Leach Highway, Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

Melbourne Laboratory
2 Kingston Town Close, Oakleigh, VIC 3166
03 8564 5000 EnviroSampleVic@eurofins.com

Company	ALLIANCE GEOTECHNICAL	Project No	13546	Project Manager	Jacob W	Sampler(s)	SJ
Address	10 WELDER ROAD, SEVEN HILLS NSW	Project Name	Kemps Creek	EDD Format (ESdat, EQuIS, Custom)		Handed over by	
Contact Name	Sam J	Analyses <small>(Note: Where metals are requested, please specify 'Total' or 'Filtered') SUITE code must be used to attach SUITE pricing.</small>	OCF, 8 Heavy Metals	Suite B7: TRH, BTEXN, PAH, Metals Suite B13: OCP, PCB EC and pH L2 Aggressivity Suite Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P E.Coli and total coliforms - thermotolerant TRH & BTEX VOC HOLD		Email for Invoice	admin@allgeo.com.au
Phone No	430214402		Email for Results			samjones@allgeo.com.au , enviro@allgeo.com.au , & jacob.walker@allgeo.com.au	
Special Directions			Containers			Turnaround Time (TAT) Requirements (Default will be 5 days if not ticked)	
Purchase Order			<input type="checkbox"/> Overnight (9am)* <input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Day* <input type="checkbox"/> 3 Day* <input checked="" type="checkbox"/> 4 Day* <input type="checkbox"/> Other ()				
Quote ID No							

No	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))	OCF	8 Heavy Metals	TRH & BTEX	VOC	HOLD	Other
89	DS18	19/10/21	S	X					X
90	DW22	19/10/21	S	X	X				X
91	DW23	19/10/21	S	X	X				X
92	TP78 0.0-0.1	19/10/21	S	X					X
93	TP79 0.0-0.1	19/10/21	S					X	X
94	TP80 0.0-0.1	19/10/21	S	X					X
95	TP81 0.0-0.1	19/10/21	S					X	X
96	TP82 0.0-0.1	19/10/21	S	X					X
97	TP83 0.0-0.1	19/10/21	S					X	X
98	TP84 0.0-0.1	19/10/21	S	X					X
99	TP85 0.0-0.1	19/10/21	S					X	X
100	TP86 0.0-0.1	19/10/21	S	X		X			X
101	TP87 0.0-0.1	19/10/21	S					X	X
102	TP88 0.0-0.1	19/10/21	S	X					X
103	TP89 0.0-0.1	19/10/21	S					X	X
104	TP90 0.0-0.1	19/10/21	S	X					X
105	TP91 0.0-0.1	19/10/21	S					X	X
106	TP92 0.0-0.1	19/10/21	S	X					X
107	TP93 0.0-0.1	19/10/21	S					X	X
108	TP94 0.0-0.1	19/10/21	S	X					X
109	TP95 0.0-0.1	19/10/21	S		X	X			X
110	TP96 0.0-0.1	20/10/21	S	X					X

Total Counts				10	4	3	1				8					22
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Method of Shipment	<input checked="" type="checkbox"/> Courier (#) <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal	Name	SJ	Signature		Date	22/10/2021	Time		
Eurofins mgt Laboratory Use Only	Received By	SYD BNE MEL PER ADL NTL DRW	Signature		Date	23/10/21	Time	1:52	Temperature	17.2°C
	Received By	SYD BNE MEL PER ADL NTL DRW	Signature		Date	___/___/___	Time	___:___	Report No	836977 836978

Submission of samples to the laboratory will be deemed as acceptance of Eurofins | mgt Standard Terms and Conditions unless agreed otherwise. A copy of Eurofins | mgt Standard Terms and Conditions is available on request.



CHAIN OF CUSTODY RECORD

ABN 50 005 085 521

Sydney Laboratory
Unit F3 Bld.F, 16 Mars Rd, Lane Cove West, NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory
Unit 1, 21 Smallwood Pl, Murarie, QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory
Unit 2, 91 Leach Highway, Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

Melbourne Laboratory
2 Kingston Town Close, Oakleigh, VIC 3186
03 8564 5000 EnviroSampleVic@eurofins.com

Company	ALLIANCE GEOTECHNICAL	Project No	13546	Project Manager	Jacob W	Sampler(s)	SJ			
Address	10 WELDER ROAD, SEVEN HILLS NSW	Project Name	Kemps Creek	EDD Format (ESdat, EQuls, Custom)		Handed over by				
Contact Name	Sam J	Analyses <small>(Note - where metals are equated, please specify 'Total' or 'Filtered') SUITE code must be used to allow SUITE pricing.</small>	OCF, 8 Heavy Metals	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	EC and pH	L2 Aggressivity Suite			
Phone No	430214402							Email for Invoice	admin@allgeo.com.au	
Special Directions									Email for Results	samjones@allgeo.com.au , enviro@allgeo.com.au , & jacob.walker@allgeo.com.au
Purchase Order										Containers
Quote ID No							<input type="checkbox"/> Overnight (9am)* <input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Day* <input type="checkbox"/> 3 Day* <input checked="" type="checkbox"/> 4 Day* <input type="checkbox"/> Other ()			

No	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))	OCF, 8 Heavy Metals	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	EC and pH	L2 Aggressivity Suite	Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P	E.Coli and total coliforms - thermotolerant	TRH & BTEX	VOC	HOLD
111	TP97 0.0-0.1	20/10/21	s										X
112	TP98 0.0-0.1	20/10/21	s	X									
113	TP99 0.0-0.1	20/10/21	s										X
114	TP100 0.0-0.1	20/10/21	s	X									
115	TP101 0.0-0.1	20/10/21	s			X							X
116	TP102 0.0-0.1	20/10/21	s	X									
117	TP103 0.0-0.1	20/10/21	s										X
118	TP104 0.0-0.1	20/10/21	s	X									
119	TP105 0.0-0.1	20/10/21	s										X
120	TP106 0.0-0.1	20/10/21	s	X									
121	TP107 0.0-0.1	20/10/21	s										X
122	TP108 0.0-0.1	20/10/21	s	X									
123	TP109 0.0-0.1	20/10/21	s										X
124	TP110 0.0-0.1	20/10/21	s	X									
125	TP111 0.0-0.1	20/10/21	s										X
126	TP112 0.0-0.1	20/10/21	s	X									
127	TP113 0.0-0.1	20/10/21	s										X
128	TP114 0.0-0.1	20/10/21	s	X									
129	TP115 0.0-0.1	20/10/21	s										X
130	TP116 0.0-0.1	20/10/21	s	X									
131	TP117 0.0-0.1	20/10/21	s										X
132	TP118 0.0-0.1	20/10/21	s	X									
Total Counts				11			1						11

Method of Shipment	<input checked="" type="checkbox"/> Courier (#) <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal	Name	SJ	Signature		Date	22/10/2021	Time	
Eurofins mgt Laboratory Use Only	Received By <i>Adyana B</i>	Signature	<i>AD</i>	Date	20/10/21	Time	1.54	Temperature	12.29
	Received By	Signature		Date	___/___/___	Time	___	Report No	536948 836948

Submission of samples to the laboratory will be deemed as acceptance of Eurofins | mgt Standard Terms and Conditions unless agreed otherwise. A copy of Eurofins | mgt Standard Terms and Conditions is available on request.



CHAIN OF CUSTODY RECORD

ABN 50 005 065 521

Sydney Laboratory
Unit F3 Bid.F, 16 Mars Rd, Lane Cove West, NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory
Unit 1, 21 Smallwood Pl., Murarrie, QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory
Unit 2, 91 Leach Highway, Kewdale WA 6105
08 9251 9800 EnviroSampleWA@eurofins.com

Melbourne Laboratory
2 Kingston Town Close, Oakleigh, VIC 3166
03 8564 5000 EnviroSampleVic@eurofins.com

Company	ALLIANCE GEOTECHNICAL	Project No	13546	Project Manager	Jacob W	Sampler(s)	SJ
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Address	10 WELDER ROAD, SEVEN HILLS NSW	Project Name	Kemps Creek	EDD Format (ESdat, EQuIS, Custom)		Handed over by	
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Contact Name	Sam J	Analyses <small>(Note: Where metals are requested, please specify "Total" or "Filtered") SUITE code must be used to attach SUITE printing.</small>	OCF, 8 Heavy Metals	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	EC and pH	L2 Aggressivity Suite	Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P	E.Coli and total coliforms - thermotolerant	TRH & BTEX	VOC	HOLD	Email for Invoice	admin@allgeo.com.au
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Phone No	430214402	Email for Results	samjones@allgeo.com.au , enviro@allgeo.com.au , & jacob.walker@allgeo.com.au
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Special Directions		Containers	Turnaround Time (TAT) Requirements (Default will be 5 days if not ticked)
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Purchase Order		1L Plastic	<input type="checkbox"/> Overnight (9am)*
Quote ID No		250mL Plastic	<input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Day*
		125mL Plastic	<input type="checkbox"/> 3 Day* <input type="checkbox"/> 4 Day*
		200mL Amber Glass	<input type="checkbox"/> Other ()
		40mL VOA vial	
		500mL PFAS Bottle	
		Jar (Glass or HDPE)	

No	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))	OCF	B7	B13	EC	L2	BH19D	E.Coli	TRH & BTEX	VOC	HOLD	1L Plastic	250mL Plastic	125mL Plastic	200mL Amber Glass	40mL VOA vial	500mL PFAS Bottle	Jar (Glass or HDPE)	Sample Comments / Dangerous Goods Hazard Warning		
133	TP119 0.0-0.1	20/10/21	S										X								X		
134	TP120 0.0-0.1	20/10/21	S	X	X	X																X	
135	TP121 0.0-0.1	20/10/21	S										X									X	
136	TP122 0.0-0.1	20/10/21	S	X																		X	
137	TP123 0.0-0.1	20/10/21	S										X									X	
138	TP124 0.0-0.1	20/10/21	S	X																		X	
139	TP125 0.0-0.1	20/10/21	S	X	X																	X	
140	TP126 0.0-0.1	20/10/21	S	X																		X	
141	TP127 0.0-0.1	21/10/21	S										X									X	
142	TP128 0.0-0.1	21/10/21	S	X																		X	
143	TP129 0.0-0.1	21/10/21	S										X									X	
144	TP130 0.0-0.1	21/10/21	S	X			X															X	
145	TP131 0.0-0.1	21/10/21	S										X									X	
146	TP132 0.0-0.1	21/10/21	S	X																		X	
147	TP133 0.0-0.1	21/10/21	S										X									X	
148	TP134 0.0-0.1	21/10/21	S	X																		X	
149	TP135 0.0-0.1	21/10/21	S										X									X	
150	TP136 0.0-0.1	21/10/21	S	X																		X	
151	TP137 0.0-0.1	21/10/21	S				X						X									X	
152	TP138 0.0-0.1	21/10/21	S	X																		X	
153	TP139 0.0-0.1	21/10/21	S										X									X	
154	TP78 0.2-0.3	19/10/21	S										X									X	
Total Counts				9	2	2	3					11										22	

Method of Shipment	<input checked="" type="checkbox"/> Courier (#) <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal	Name	SJ	Signature		Date	22/10/2021	Time	
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Eurofins mgt Laboratory Use Only	Received By	A.B	SYD BNE MEL PER ADL NTL DRW	Signature		Date	22/10/21	Time	15:42	Temperature	12.7°C
	Received By		SYD BNE MEL PER ADL NTL DRW	Signature		Date	___/___/___	Time	___:___	Report No	836977 836978

Submission of samples to the laboratory will be deemed as acceptance of Eurofins | mgt Standard Terms and Conditions unless agreed otherwise. A copy of Eurofins | mgt Standard Terms and Conditions is available on request.



CHAIN OF CUSTODY RECORD

ABN 50 005 085 521

Sydney Laboratory

Unit F3 Bld.F, 16 Mars Rd, Lane Cove West, NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory

Unit 1, 21 Smallwood Pl., Murarie, QLD 5172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory

Unit 2, 91 Leach Highway, Kewdale WA 6105
08 9251 9800 EnviroSampleWA@eurofins.com

Melbourne Laboratory

2 Kingston Town Close, Oakleigh, VIC 3166
03 8564 5000 EnviroSampleVic@eurofins.com

Company	ALLIANCE GEOTECHNICAL	Project No	13546	Project Manager	Jacob W	Sampler(s)	SJ					
Address	10 WELDER ROAD, SEVEN HILLS NSW	Project Name	Kemps Creek	EDD Format (ESdat, EQulS, Custom)		Handed over by						
Contact Name	Sam J	Analyses <small>(While where metals are requested, please specify "Total" or "Filtered") SUITE code must be used to attach SUITE pricing.</small>	OCp, 8 Heavy Metals	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	EC and pH	L2 Aggressivity Suite					
Phone No	430214402							Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P	E.Coli and total coliforms - thermotolerant	TRH & BTEX	VOC	HOLD
Special Directions												
Purchase Order												
Quote ID No		Containers	Turnaround Time (TAT) Requirements (Default will be 5 days if not ticked)									
		1L Plastic	<input type="checkbox"/> Overnight (9am)*									
		250mL Plastic	<input type="checkbox"/> 1 Day*	<input type="checkbox"/> 2 Day*								
		125mL Plastic	<input type="checkbox"/> 3 Day*	<input checked="" type="checkbox"/> 5 Day*								
		200mL Amber Glass	<input type="checkbox"/> Other ()									
		40mL VOA vial										
		500mL PFAS Bottle										
		Jar (Glass or HDPE)										
		Other (Acceptance AS1064 - WA Guidelines)										

No	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))	OCp, 8 Heavy Metals	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	EC and pH	L2 Aggressivity Suite	Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P	E.Coli and total coliforms - thermotolerant	TRH & BTEX	VOC	HOLD	Containers	Turnaround Time (TAT) Requirements	Sample Comments / Dangerous Goods Hazard Warning
155	TP79 0.2-0.3	19/10/21	s										X	X		
156	TP80 0.2-0.3	19/10/21	s										X	X		
157	TP81 0.2-0.3	19/10/21	s										X	X		
158	TP82 0.2-0.3	19/10/21	s										X	X		
159	TP83 0.2-0.3	19/10/21	s										X	X		
160	TP84 0.2-0.3	19/10/21	s										X	X		
161	TP85 0.2-0.3	19/10/21	s										X	X		
162	TP86 0.5-0.6	19/10/21	s				X	X					X	X		
163	TP87 0.2-0.3	19/10/21	s										X	X		
164	TP88 0.2-0.3	19/10/21	s										X	X		
165	TP89 0.2-0.3	19/10/21	s										X	X		
166	TP90 0.2-0.3	19/10/21	s										X	X		
167	TP91 0.2-0.3	19/10/21	s										X	X		
168	TP92 0.2-0.3	19/10/21	s										X	X		
169	TP93 0.2-0.3	19/10/21	s										X	X		
170	TP94 0.2-0.3	19/10/21	s										X	X		
171	TP95 0.2-0.3	19/10/21	s										X	X		
172	TP96 0.2-0.3	20/10/21	s										X	X		
173	TP97 0.2-0.3	20/10/21	s										X	X		
174	TP98 0.2-0.3	20/10/21	s										X	X		
175	TP99 0.2-0.3	20/10/21	s										X	X		
176	TP100 0.2-0.3	20/10/21	s										X	X		
Total Counts							1	1					21			22

Method of Shipment	<input checked="" type="checkbox"/> Courier (#)	<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Postal	Name	SJ	Signature	Date	22/10/2021	Time
Eurofins mgt Laboratory Use Only	Received By	A.B	SYD BNE MEL PER ADL NTL DRW	Signature		Date	23/10/21	Time	1:50
	Received By		SYD BNE MEL PER ADL NTL DRW	Signature		Date	___/___/___	Time	___:___
									Report No



CHAIN OF CUSTODY RECORD

ABN 50 005 085 521

Sydney Laboratory

Unit F3 Bld.F, 16 Mars Rd, Lane Cove West, NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory

Unit 1, 21 Smallwood Pl., Murarie, QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory

Unit 2, 91 Leach Highway, Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

Melbourne Laboratory

2 Kingston Town Close, Oakleigh, VIC 3168
03 8564 5000 EnviroSampleVic@eurofins.com

Company	ALLIANCE GEOTECHNICAL	Project No	13546	Project Manager	Jacob W	Sampler(s)	SJ
Address	10 WELDER ROAD, SEVEN HILLS NSW	Project Name	Kemps Creek	EDD Format (ESdat, EQuIS, Custom)		Handed over by	
Contact Name	Sam J	Analyses (Note: Where measurable, reagent grade specific "Total" or "Filtered") SUITE code must be used to avoid SUITE mixing.)	OCF, 8 Heavy Metals Suite B7: TRH, BTEXN, PAH, Metals Suite B13: OCP, PCB EC and pH L2 Aggressivity Suite Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P E.Coli and total coliforms - thermotolerant TRH & BTEX VOC HOLD	Email for Invoice: admin@allgeo.com.au Email for Results: samjones@allgeo.com.au , enviro@allgeo.com.au , & jacob.walker@allgeo.com.au	Turnaround Time (TAT) Requirements (Default will be 5 days if not ticked)	<input type="checkbox"/> Overnight (9am)* <input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Day* <input type="checkbox"/> 3 Day* <input type="checkbox"/> 5 Day* <input type="checkbox"/> Other ()	
Phone No	430214402				Containers	1L Plastic 250mL Plastic 125mL Plastic 200mL Amber Glass 40mL VOA vial 500mL PFAS Bottle Jar (Glass or HDPE) Other (Asbestos AS4164 WA Guidelines)	
Special Directions					Sample Comments / Dangerous Goods Hazard Warning		
Purchase Order							
Quote ID No							

No	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))	OCF, 8 Heavy Metals	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	EC and pH	L2 Aggressivity Suite	Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P	E.Coli and total coliforms - thermotolerant	TRH & BTEX	VOC	HOLD	1L Plastic	250mL Plastic	125mL Plastic	200mL Amber Glass	40mL VOA vial	500mL PFAS Bottle	Jar (Glass or HDPE)	Other (Asbestos AS4164 WA Guidelines)	Sample Comments / Dangerous Goods Hazard Warning		
177	TP101 0.5-0.6	20/10/21	s				x																	
178	TP102 0.2-0.3	20/10/21	s									x												
179	TP103 0.2-0.3	20/10/21	s									x												
180	TP104 0.2-0.3	20/10/21	s									x												
181	TP105 0.2-0.3	20/10/21	s									x												
182	TP106 0.2-0.3	20/10/21	s									x												
183	TP107 0.2-0.3	20/10/21	s									x												
184	TP108 0.2-0.3	20/10/21	s									x												
185	TP109 0.2-0.3	20/10/21	s									x												
186	TP110 0.2-0.3	20/10/21	s									x												
187	TP111 0.2-0.3	20/10/21	s									x												
188	TP112 0.2-0.3	20/10/21	s									x												
189	TP113 0.2-0.3	20/10/21	s									x												
190	TP114 0.2-0.3	20/10/21	s									x												
191	TP115 0.2-0.3	20/10/21	s									x												
192	TP116 0.2-0.3	20/10/21	s									x												
193	TP117 0.2-0.3	20/10/21	s									x												
194	TP118 0.2-0.3	20/10/21	s									x												
195	TP119 0.2-0.3	20/10/21	s									x												
196	TP120 0.5-0.6	20/10/21	s			x																		
197	TP121 0.2-0.3	20/10/21	s									x												
198	TP122 0.2-0.3	20/10/21	s									x												
Total Counts						1	1					20												

Method of Shipment	<input checked="" type="checkbox"/> Courier (#) <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal	Name	SJ	Signature		Date	22/10/2021	Time		
Eurofins mgt Laboratory Use Only	Received By	SYD BNE MEL PER ADL NTL DRW	Signature		Date	23/10/21	Time	1:55pm	Temperature	12.20c
	Received By	SYD BNE MEL PER ADL NTL DRW	Signature		Date	1/1/	Time		Report No	836978

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CHAIN OF CUSTODY RECORD

ABN 50 005 085 521

Sydney Laboratory
Unit F3 Bld F, 16 Mars Rd, Lane Cove West, NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory
Unit 1, 21 Smallwood Pl, Murarie, QLD 4172
07 3902 4600 EnviroSampleQLD@eurofins.com

Perth Laboratory
Unit 2, 91 Leach Highway, Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

Melbourne Laboratory
2 Kingston Town Close, Oakleigh, VIC 3166
03 8564 5000 EnviroSampleVic@eurofins.com

Company	ALLIANCE GEOTECHNICAL	Project No	13546	Project Manager	Jacob W	Sampler(s)	SJ
Address	10 WELDER ROAD, SEVEN HILLS NSW	Project Name	Kemps Creek	EDD Format (ESdat, EQUS, Custom)		Handed over by	
Contact Name	Sam J	Analyses <small>(Note: Where metals are requested, please specify "Total" or "Filterable" / SUITE code must be used to attract SUITE pricing)</small> OCF, & Heavy Metals Suite B7: TRH, BTEXN, PAH, Metals Suite B13: OCP, PCB EC and pH L2 Aggressivity Suite Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P E.Coli and total coliforms - thermotolerant TRH & BTEX VOC HOLD				Email for Invoice	admin@allgeo.com.au
Phone No	430214402					Email for Results	samjones@allgeo.com.au , enviro@allgeo.com.au , & jacob.walker@allgeo.com.au
Special Directions						Turnaround Time (TAT) Requirements (Default will be 5 days if not ticked) <input type="checkbox"/> Overnight (9am)* <input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Day* <input type="checkbox"/> 3 Day* <input checked="" type="checkbox"/> 5 Day* <input type="checkbox"/> Other ()	
Purchase Order						Containers 1L Plastic 250mL Plastic 125mL Plastic 200mL Amber Glass 40mL VOA vial 500mL PFAS Bottle Jar (Glass or HDPE) <small>Other: Aqueous AS-1664 WA Guidelines</small>	
Quote ID No							

No	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))															Sample Comments / Dangerous Goods Hazard Warning
199	TP123 0.2-0.3	20/10/21	s															X
200	TP124 0.2-0.3	20/10/21	s															X
201	TP125 0.2-0.3	20/10/21	s															X
202	TP126 0.2-0.3	20/10/21	s															X
203	TP127 0.2-0.3	21/10/21	s															X
204	TP128 0.2-0.3	21/10/21	s															X
205	TP129 0.2-0.3	21/10/21	s															X
206	TP130 0.5-0.6	21/10/21	s				X											X
207	TP131 0.2-0.3	21/10/21	s															X
208	TP132 0.2-0.3	21/10/21	s															X
209	TP133 0.2-0.3	21/10/21	s															X
210	TP134 0.2-0.3	21/10/21	s															X
211	TP135 0.2-0.3	21/10/21	s															X
212	TP136 0.2-0.3	21/10/21	s															X
213	TP137 0.5-0.6	21/10/21	s				X											X
214	TP138 0.2-0.3	21/10/21	s															X
215	TP139 0.2-0.3	21/10/21	s															X
216	SW17	21/10/21	w				X	X										
217	SW18	21/10/21	w				X	X				X	X	X				
218	SW19	21/10/21	w				X	X										
219	SW20	21/10/21	w				X	X										
220	DS19	21/10/21	s				X											X
Total Counts																		
				5	4	2												

Method of Shipment	<input checked="" type="checkbox"/> Courier (#) <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal	Name	SJ	Signature		Date	22/10/2021	Time	
Eurofins mgt Laboratory Use Only	Received By	SYD BNE MEL PER ADL NTL DRW	Signature	Date	22/10/21	Time		Temperature	12.2°C
	Received By	SYD BNE MEL PER ADL NTL DRW	Signature	Date	1/1/	Time		Report No	836977 836912

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CHAIN OF CUSTODY RECORD

ABN 50 005 085 521

Sydney Laboratory
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02 9900 8400 EnviroSampleNSW@eurofins.com

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08 9251 9600 EnviroSampleWA@eurofins.com

Melbourne Laboratory
2 Kingston Town Close, Oakleigh, VIC 3166
03 8564 5000 EnviroSampleVic@eurofins.com

Company	ALLIANCE GEOTECHNICAL	Project No	13546	Project Manager	Jacob W	Sampler(s)	SJ
Address	10 WELDER ROAD, SEVEN HILLS NSW	Project Name	Kemps Creek	EDD Format (ESdat, EQUIS, Custom)		Handed over by	
Contact Name	Sam J	Analyses <small>(Note: Where metals are requested, please specify "Total" or "Filtered" / SUITE code must be used to attract SUITE pricing.)</small>	Suite B7: TRH, BTEXN, PAH, Metals			Email for Invoice	admin@allgeo.com.au
Phone No	430214402		Suite B13: OCP, PCB			Email for Results	samjones@allgeo.com.au, enviro@allgeo.com.au, & jacob.walker@allgeo.com.au
Special Directions			EC and pH			Containers	Turnaround Time (TAT) Requirements (Default: will be 5 days if not ticked)
Purchase Order			L2 Aggressivity Suite				
Quote ID No			Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P			1L Plastic	
			E.Coli and total coliforms - thermotolerant			250mL Plastic	
						125mL Plastic	
						200mL Amber Glass	
						40mL YOA vial	
						500mL PFAS Bottle	
						Jar (Glass or HDPE)	
						Other (Asbestos AS-4964, WA Guidelines)	

Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))	Suite B7: TRH, BTEXN, PAH, Metals	Suite B13: OCP, PCB	EC and pH	L2 Aggressivity Suite	Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P	E.Coli and total coliforms - thermotolerant	BTEX	VOC	HOLD	1L Plastic	250mL Plastic	125mL Plastic	200mL Amber Glass	40mL YOA vial	500mL PFAS Bottle	Jar (Glass or HDPE)	Other (Asbestos AS-4964, WA Guidelines)	Sample Comments / Dangerous Goods Hazard Warning
DS20	20/10/21	S	X																X	
DS21	20/10/21	S	X																X	
DS22	20/10/21	S	X																X	
DW24	20/10/21	S									X								X	
DW25	21/10/21	S									X								X	
DW26	21/10/21	S									X								X	
DW27	21/10/21	S									X								X	
DW28	21/10/21	S									X								X	
DW29	21/10/21	S									X								X	
Trip spike & blank x 5	15,18,19,20, & 21/10/2021	S							X						X					
BD5	21/10/21	S		X															X	
BT5	21/10/21	S		X															X	Please forward to ALS
TP86 1.0-1.1	19/10/21	S			X														X	
TP86 1.5-1.6	19/10/21	S			X														X	
TP86 2.0-2.1	19/10/21	S			X														X	
TP89 2.5-2.6	19/10/21	S			X														X	
TP101 1.0-1.1	20/10/21	S			X	X													X	
TP120 1.0-1.1	20/10/21	S			X														X	
TP120 1.5-1.6	20/10/21	S			X														X	
TP120 2.0-2.1	20/10/21	S			X														X	
TP120 2.5-2.6	20/10/21	S			X	X													X	
TP130 1.0-1.1	21/10/21	S			X														X	
Total Counts				3	2	10	2		1	6							1	21		

Method of Shipment	<input checked="" type="checkbox"/> Courier (#) <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal	Name	SJ	Signature		Date	22/10/2021	Time		
Eurofins mgt Laboratory Use Only	Received By	4.0	SYD BNE MEL PER ADL NTL DRW	Signature		Date	28/10/21	Time	1:00	
	Received By		SYD BNE MEL PER ADL NTL DRW	Signature		Date	__/__/__	Time	__:__	
									Temperature	12.30c
									Report No	836117

Retention of samples in the laboratory will be deemed as acceptance of Eurofins Ltd Standard Terms and Conditions unless agreed otherwise. A copy of Eurofins Ltd Standard Terms and Conditions is available on request.

CHAIN OF CUSTODY RECORD

ABN 50 005 085 521

Sydney Laboratory
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Melbourne Laboratory
2 Kingston Town Close, Oakleigh, VIC 3166
03 8564 5000 EnviroSampleVic@eurofins.com

Company	ALLIANCE GEOTECHNICAL	Project No	13546	Project Manager	Jacob W	Sampler(s)	SJ	
Address	10 WELDER ROAD, SEVEN HILLS NSW	Project Name	Kemps Creek			Handed over by		
Contact Name	Sam J	Note: Where means are requested, please specify "Jar" or "Filtertop" SUITE CO29 must be used for all SUITE pricing.	Suite B7: TRH, BTEXN, PAH, Metals Suite B13: OCP, PCB EC and pH L2 Aggressivity Suite Suite BH19D: Total N, TKN, NOX, NO2, NO3, NH3, Total P E.Coll and total coliforms - thermotolerant	BTEX VOC HOLD	Email for Invoice	admin@allgeo.com.au		
Phone No	430214402				Email for Results	samjones@allgeo.com.au , enviro@allgeo.com.au & jacob.walker@allgeo.com.au		
Special Directions					Containers		Turnaround Time (TAT) Requirements (Default will be 5 days if not ticked)	
Purchase Order					1L Plastic 250mL Plastic 125mL Plastic 200mL Amber Glass 40mL VOA vial 500mL PFAS Bottle Jar (Glass or HDPE) Other (Asbestos AS4964 -WA Guidelines)	<input type="checkbox"/> Overnight (9am)* <input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Day* <input type="checkbox"/> 3 Day* <input checked="" type="checkbox"/> 5 Day* <input type="checkbox"/> Other ()		
Quote ID No					Sample Comments / Dangerous Goods Hazard Warning			

Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))	Total Counts									
TP130 1.5-1.6	21/10/21	S	6	2								
TP130 2.0-2.1	21/10/21	S										
TP137 1.0-1.1	21/10/21	S										
TP137 1.5-1.6	21/10/21	S										
TP137 2.0-2.1	21/10/21	S										
TP137 2.5-2.6	21/10/21	S										

Method of Shipment	<input checked="" type="checkbox"/> Courier (#) <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal	Name	SJ	Signature		Date	22/10/2021	Time		
Eurofins mgt	Received By	SYD BNE MEL PER ADL NTL DRW	Signature		Date	20/10/21	Time	1:34pm	Temperature	12.2°C
Laboratory Use Only	Received By	SYD BNE MEL PER ADL NTL DRW	Signature		Date	1/1/	Time		Report No	8360177 836018

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From: Sam Jones <SamJones@allgeo.com.au>
Sent: Wednesday, 3 November 2021 4:24 PM
To: Andrew Black <AndrewBlack@eurofins.com>
Cc: Emma Beesley <EmmaBeesley@eurofins.com>; Jacob Walker <jacob.walker@allgeo.com.au>
Subject: RE: 13546 COC

EXTERNAL EMAIL *

Hi Andrew,

In addition to this, please also analyse the following:

TP41 0.0-0.1, TP42 0.0-0.1, TP43 0.0-0.1, & TP44 0.0-0.1 all for Suite B7 and B13.
PP4 0.0-0.1, PP4 0.5-0.6, PP4 1.0-1.1, PP4 1.5-1.6, PP4 2.0-2.1, PP6 0.0-0.1, PP6 0.5-0.6, PP6 1.0-1.1,
PP6 1.5-1.6, PP6 2.0-2.1, PP6 2.4-2.5, TP44 0.0-0.1, TP44 0.4-0.5, TP44 1.0-1.1, TP44 1.4-1.5, TP44
2.0-2.1, and TP44 2.4-2.5 all for pH and EC.
PP4 1.5-1.6, TP44 2.0-2.1, and PP6 2.4-2.5 for Aggressivity Suite L2.

I am aware that some of these may be past recommended holding times.

Thank you.

Regards,

Sam Jones

Environmental Consultant

Mobile: 0430 214 402 | **Email:** SamJones@allgeo.com.au



Office Phone: 1800 288 188
Admin Email: admin@allgeo.com.au
Website: allgeo.com.au
Office & Lab: 8-10 Welder Road, Seven Hills NSW 2147
Postal Address: PO Box 275, Seven Hills NSW 1730

Alliance Geotechnical
10 Welder Road
Seven Hills
NSW 2147



NATA Accredited
Accreditation Number 1261
Site Number 18217

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

Attention: **Jacob Walker**

Report **838889-S**
 Project name **ADDITIONAL: KEMPS CREEK**
 Project ID **13546**
 Received Date **Nov 03, 2021**

Client Sample ID			TP41 0.0-0.1	TP42 0.0-0.1	TP43 0.0-0.1	TP44 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No17421	S21-No17422	S21-No17423	S21-No17424
Date Sampled			Oct 12, 2021	Oct 12, 2021	Oct 12, 2021	Oct 12, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	100
TRH C29-C36	50	mg/kg	54	< 50	< 50	150
TRH C10-C36 (Total)	50	mg/kg	54	< 50	< 50	250
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	320
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	210
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	530
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	65	73	130	114
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			TP41 0.0-0.1	TP42 0.0-0.1	TP43 0.0-0.1	TP44 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No17421	S21-No17422	S21-No17423	S21-No17424
Date Sampled			Oct 12, 2021	Oct 12, 2021	Oct 12, 2021	Oct 12, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	113	114	105	106
p-Terphenyl-d14 (surr.)	1	%	108	112	104	107
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	^{Q09} INT	^{Q09} INT	^{Q09} INT	^{Q09} INT
Tetrachloro-m-xylene (surr.)	1	%	115	116	106	108
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchloroendate (surr.)	1	%	^{Q09} INT	^{Q09} INT	^{Q09} INT	^{Q09} INT
Tetrachloro-m-xylene (surr.)	1	%	115	116	106	108

Client Sample ID			TP41 0.0-0.1	TP42 0.0-0.1	TP43 0.0-0.1	TP44 0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No17421	S21-No17422	S21-No17423	S21-No17424
Date Sampled			Oct 12, 2021	Oct 12, 2021	Oct 12, 2021	Oct 12, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	5.2	7.7	9.6	4.7
Cadmium	0.4	mg/kg	< 0.4	0.5	< 0.4	< 0.4
Chromium	5	mg/kg	15	18	21	13
Copper	5	mg/kg	21	36	35	19
Lead	5	mg/kg	17	21	23	15
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	12	15	22	9.4
Zinc	5	mg/kg	61	89	95	81
% Moisture						
% Moisture	1	%	21	17	18	18
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	-	-	67
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	-	-	6.1

Client Sample ID			PP4 0.0-0.1	PP4 0.5-0.6	PP4 1.0-1.1	PP4 1.5-1.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No17425	S21-No17426	S21-No17427	S21-No17428
Date Sampled			Oct 12, 2021	Oct 12, 2021	Oct 12, 2021	Oct 12, 2021
Test/Reference	LOR	Unit				
% Moisture						
% Moisture	1	%	18	12	13	11
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	50	220	390	310
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	6.3	5.6	5.3	5.5
Chloride	10	mg/kg	-	-	-	530
Resistivity*	0.5	ohm.m	-	-	-	32
Sulphate (as SO4)	10	mg/kg	-	-	-	< 10

Client Sample ID			PP4 2.0-2.1	PP6 0.0-0.1	PP6 0.5-0.6	PP6 1.0-1.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No17429	S21-No17430	S21-No17431	S21-No17432
Date Sampled			Oct 12, 2021	Oct 12, 2021	Oct 12, 2021	Oct 12, 2021
Test/Reference	LOR	Unit				
% Moisture						
% Moisture	1	%	10	13	11	8.0
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	370	66	17	15
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	5.3	5.9	6.6	6.4

Client Sample ID			PP6 1.5-1.6 Soil	PP6 2.0-2.1 Soil	PP6 2.4-2.5 Soil	TP44 0.4-0.5 Soil
Sample Matrix			S21-No17433	S21-No17434	S21-No17435	S21-No17436
Eurofins Sample No.			Oct 12, 2021	Oct 12, 2021	Oct 12, 2021	Oct 12, 2021
Date Sampled						
Test/Reference	LOR	Unit				
% Moisture	1	%	10	10	13	12
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	20	22	84	24
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	6.5	6.5	6.1	6.3
Chloride	10	mg/kg	-	-	110	-
Resistivity*	0.5	ohm.m	-	-	120	-
Sulphate (as SO4)	10	mg/kg	-	-	< 10	-

Client Sample ID			TP44 1.0-1.1 Soil	TP44 1.4-1.5 Soil	TP44 2.0-2.1 Soil	TP44 2.4-2.5 Soil
Sample Matrix			S21-No17437	S21-No17438	S21-No17439	S21-No17440
Eurofins Sample No.			Oct 12, 2021	Oct 12, 2021	Oct 12, 2021	Oct 12, 2021
Date Sampled						
Test/Reference	LOR	Unit				
% Moisture	1	%	17	18	15	15
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	29	66	74	66
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	6.5	6.6	5.9	6.9
Chloride	10	mg/kg	-	-	16	-
Resistivity*	0.5	ohm.m	-	-	130	-
Sulphate (as SO4)	10	mg/kg	-	-	100	-

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 16, 2021	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 16, 2021	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 16, 2021	14 Days
BTEX - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Nov 16, 2021	14 Days
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Sydney	Nov 16, 2021	14 Days
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Sydney	Nov 16, 2021	28 Days
Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water	Sydney	Nov 16, 2021	14 Days
Polychlorinated Biphenyls - Method: LTM-ORG-2220 OCP & PCB in Soil and Water	Sydney	Nov 16, 2021	28 Days
% Moisture - Method: LTM-GEN-7080 Moisture	Sydney	Nov 09, 2021	14 Days
Conductivity (1:5 aqueous extract at 25°C as rec.) - Method: LTM-INO-4030 Conductivity	Sydney	Nov 16, 2021	7 Days
pH (1:5 Aqueous extract at 25°C as rec.) - Method: LTM-GEN-7090 pH by ISE	Sydney	Nov 16, 2021	7 Days
Chloride - Method: In-house method LTM-INO-4270 Anions by Ion Chromatography	Sydney	Nov 16, 2021	28 Days
Sulphate (as SO ₄) - Method: In-house method LTM-INO-4270 Sulphate by Ion Chromatograph	Sydney	Nov 16, 2021	28 Days

Company Name:	Alliance Geotechnical	Order No.:		Received:	Nov 3, 2021 4:24 PM
Address:	10 Welder Road Seven Hills NSW 2147	Report #:	838889	Due:	Nov 10, 2021
Project Name:	ADDITIONAL: KEMPS CREEK	Phone:	1800 288 188	Priority:	5 Day
Project ID:	13546	Fax:	02 9675 1888	Contact Name:	Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Conductivity (1:5 aqueous extract at 25°C as rec.)	pH (1:5 Aqueous extract at 25°C as rec.)	Suite B13: OCP/PCB	Aggressivity Soil Set	Moisture Set	Eurofins Suite B7
Melbourne Laboratory - NATA # 1261 Site # 1254											
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794											
Mayfield Laboratory - NATA # 1261 Site # 25079											
Perth Laboratory - NATA # 2377 Site # 2370											
External Laboratory											
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID						
1	TP41 0.0-0.1	Oct 12, 2021		Soil	S21-No17421			X		X	X
2	TP42 0.0-0.1	Oct 12, 2021		Soil	S21-No17422			X		X	X
3	TP43 0.0-0.1	Oct 12, 2021		Soil	S21-No17423			X		X	X
4	TP44 0.0-0.1	Oct 12, 2021		Soil	S21-No17424	X	X	X		X	X
5	PP4 0.0-0.1	Oct 12, 2021		Soil	S21-No17425	X	X			X	
6	PP4 0.5-0.6	Oct 12, 2021		Soil	S21-No17426	X	X			X	
7	PP4 1.0-1.1	Oct 12, 2021		Soil	S21-No17427	X	X			X	
8	PP4 1.5-1.6	Oct 12, 2021		Soil	S21-No17428				X	X	
9	PP4 2.0-2.1	Oct 12, 2021		Soil	S21-No17429	X	X			X	

Company Name: Alliance Geotechnical
Address: 10 Welder Road
Seven Hills
NSW 2147

Project Name: ADDITIONAL: KEMPS CREEK
Project ID: 13546

Order No.:
Report #: 838889
Phone: 1800 288 188
Fax: 02 9675 1888

Received: Nov 3, 2021 4:24 PM
Due: Nov 10, 2021
Priority: 5 Day
Contact Name: Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Conductivity (1:5 aqueous extract at 25°C as rec.)	pH (1:5 Aqueous extract at 25°C as rec.)	Suite B13: OCP/PCB	Aggressivity Soil Set	Moisture Set	Eurofins Suite B7
Melbourne Laboratory - NATA # 1261 Site # 1254											
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794											
Mayfield Laboratory - NATA # 1261 Site # 25079											
Perth Laboratory - NATA # 2377 Site # 2370											
External Laboratory											
10	PP6 0.0-0.1	Oct 12, 2021		Soil	S21-No17430	X	X			X	
11	PP6 0.5-0.6	Oct 12, 2021		Soil	S21-No17431	X	X			X	
12	PP6 1.0-1.1	Oct 12, 2021		Soil	S21-No17432	X	X			X	
13	PP6 1.5-1.6	Oct 12, 2021		Soil	S21-No17433	X	X			X	
14	PP6 2.0-2.1	Oct 12, 2021		Soil	S21-No17434	X	X			X	
15	PP6 2.4-2.5	Oct 12, 2021		Soil	S21-No17435				X	X	
16	TP44 0.4-0.5	Oct 12, 2021		Soil	S21-No17436	X	X			X	
17	TP44 1.0-1.1	Oct 12, 2021		Soil	S21-No17437	X	X			X	
18	TP44 1.4-1.5	Oct 12, 2021		Soil	S21-No17438	X	X			X	
19	TP44 2.0-2.1	Oct 12, 2021		Soil	S21-No17439				X	X	
20	TP44 2.4-2.5	Oct 12, 2021		Soil	S21-No17440	X	X			X	

Company Name:	Alliance Geotechnical	Order No.:		Received:	Nov 3, 2021 4:24 PM
Address:	10 Welder Road Seven Hills NSW 2147	Report #:	838889	Due:	Nov 10, 2021
Project Name:	ADDITIONAL: KEMPS CREEK	Phone:	1800 288 188	Priority:	5 Day
Project ID:	13546	Fax:	02 9675 1888	Contact Name:	Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail	Conductivity (1:5 aqueous extract at 25°C as rec.)	pH (1:5 Aqueous extract at 25°C as rec.)	Suite B13: OCP/PCB	Aggressivity Soil Set	Moisture Set	Eurofins Suite B7
Melbourne Laboratory - NATA # 1261 Site # 1254						
Sydney Laboratory - NATA # 1261 Site # 18217	X	X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						
Mayfield Laboratory - NATA # 1261 Site # 25079						
Perth Laboratory - NATA # 2377 Site # 2370						
External Laboratory						
Test Counts	14	14	4	3	20	4

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

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	US Department of Defense Quality Systems Manual Version
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
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

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

Results <10 times the LOR : No Limit

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

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

NOTE: pH duplicates are reported as a range not as RPD

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

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

QC Data General Comments

- 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.
- 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.
- 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.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
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							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g,h,i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a,h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4,4'-DDD	mg/kg	< 0.05			0.05	Pass	
4,4'-DDE	mg/kg	< 0.05			0.05	Pass	
4,4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Conductivity (1:5 aqueous extract at 25°C as rec.)	uS/cm	< 10			10	Pass	
Chloride	mg/kg	< 10			10	Pass	
Sulphate (as SO4)	mg/kg	< 10			10	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	94			70-130	Pass	
TRH C10-C14	%	81			70-130	Pass	
Naphthalene	%	86			70-130	Pass	
TRH C6-C10	%	91			70-130	Pass	
TRH >C10-C16	%	83			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	103			70-130	Pass	
Toluene	%	95			70-130	Pass	
Ethylbenzene	%	98			70-130	Pass	
m&p-Xylenes	%	96			70-130	Pass	
o-Xylene	%	98			70-130	Pass	
Xylenes - Total*	%	97			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	109			70-130	Pass	
Acenaphthylene	%	104			70-130	Pass	
Anthracene	%	98			70-130	Pass	
Benz(a)anthracene	%	79			70-130	Pass	
Benzo(a)pyrene	%	113			70-130	Pass	

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Benzo(b&i)fluoranthene	%	105		70-130	Pass	
Benzo(g,h,i)perylene	%	120		70-130	Pass	
Benzo(k)fluoranthene	%	103		70-130	Pass	
Chrysene	%	103		70-130	Pass	
Dibenz(a,h)anthracene	%	124		70-130	Pass	
Fluoranthene	%	112		70-130	Pass	
Fluorene	%	104		70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	117		70-130	Pass	
Naphthalene	%	107		70-130	Pass	
Phenanthrene	%	114		70-130	Pass	
Pyrene	%	103		70-130	Pass	
LCS - % Recovery						
Organochlorine Pesticides						
Chlordanes - Total	%	102		70-130	Pass	
4,4'-DDD	%	97		70-130	Pass	
4,4'-DDE	%	105		70-130	Pass	
4,4'-DDT	%	120		70-130	Pass	
a-HCH	%	88		70-130	Pass	
Aldrin	%	98		70-130	Pass	
b-HCH	%	95		70-130	Pass	
d-HCH	%	97		70-130	Pass	
Dieldrin	%	103		70-130	Pass	
Endosulfan I	%	100		70-130	Pass	
Endosulfan II	%	106		70-130	Pass	
Endosulfan sulphate	%	104		70-130	Pass	
Endrin	%	123		70-130	Pass	
Endrin aldehyde	%	92		70-130	Pass	
Endrin ketone	%	90		70-130	Pass	
g-HCH (Lindane)	%	99		70-130	Pass	
Heptachlor	%	113		70-130	Pass	
Heptachlor epoxide	%	103		70-130	Pass	
Hexachlorobenzene	%	98		70-130	Pass	
Methoxychlor	%	100		70-130	Pass	
LCS - % Recovery						
Polychlorinated Biphenyls						
Aroclor-1016	%	89		70-130	Pass	
Aroclor-1260	%	117		70-130	Pass	
LCS - % Recovery						
Heavy Metals						
Arsenic	%	95		80-120	Pass	
Cadmium	%	99		80-120	Pass	
Chromium	%	107		80-120	Pass	
Copper	%	110		80-120	Pass	
Lead	%	106		80-120	Pass	
Mercury	%	103		80-120	Pass	
Nickel	%	109		80-120	Pass	
Zinc	%	104		80-120	Pass	
LCS - % Recovery						
Conductivity (1:5 aqueous extract at 25°C as rec.)	%	86		70-130	Pass	
Chloride	%	94		70-130	Pass	
Resistivity*	%	86		70-130	Pass	
Sulphate (as SO4)	%	89		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery								
Total Recoverable Hydrocarbons				Result 1				
TRH C10-C14	W21-No16200	NCP	%	90		70-130	Pass	
TRH >C10-C16	W21-No16200	NCP	%	91		70-130	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons				Result 1				
Acenaphthene	S21-No10451	NCP	%	104		70-130	Pass	
Acenaphthylene	S21-No10451	NCP	%	96		70-130	Pass	
Anthracene	S21-No10451	NCP	%	93		70-130	Pass	
Benzo(a)anthracene	S21-No10451	NCP	%	75		70-130	Pass	
Benzo(a)pyrene	S21-No10451	NCP	%	77		70-130	Pass	
Benzo(b&i)fluoranthene	S21-No10451	NCP	%	89		70-130	Pass	
Benzo(g,h,i)perylene	S21-No10451	NCP	%	87		70-130	Pass	
Benzo(k)fluoranthene	S21-No10451	NCP	%	78		70-130	Pass	
Chrysene	S21-No10451	NCP	%	79		70-130	Pass	
Dibenz(a,h)anthracene	S21-No10451	NCP	%	100		70-130	Pass	
Fluoranthene	S21-No05933	NCP	%	98		70-130	Pass	
Fluorene	S21-No10451	NCP	%	99		70-130	Pass	
Indeno(1,2,3-cd)pyrene	S21-No10451	NCP	%	99		70-130	Pass	
Naphthalene	S21-No10451	NCP	%	108		70-130	Pass	
Phenanthrene	S21-No10451	NCP	%	91		70-130	Pass	
Pyrene	S21-No05933	NCP	%	90		70-130	Pass	
Spike - % Recovery								
Organochlorine Pesticides				Result 1				
Chlordanes - Total	S21-No10451	NCP	%	106		70-130	Pass	
4,4'-DDD	S21-No10451	NCP	%	93		70-130	Pass	
4,4'-DDE	S21-No10451	NCP	%	107		70-130	Pass	
4,4'-DDT	S21-No10451	NCP	%	96		70-130	Pass	
a-HCH	S21-No10451	NCP	%	91		70-130	Pass	
Aldrin	S21-No10451	NCP	%	100		70-130	Pass	
b-HCH	S21-No10451	NCP	%	89		70-130	Pass	
d-HCH	S21-No10451	NCP	%	98		70-130	Pass	
Dieldrin	S21-No10451	NCP	%	100		70-130	Pass	
Endosulfan I	S21-No10451	NCP	%	108		70-130	Pass	
Endosulfan II	S21-No10451	NCP	%	83		70-130	Pass	
Endosulfan sulphate	S21-No10451	NCP	%	97		70-130	Pass	
Endrin aldehyde	S21-No10451	NCP	%	93		70-130	Pass	
Endrin ketone	S21-No10451	NCP	%	99		70-130	Pass	
g-HCH (Lindane)	S21-No10451	NCP	%	98		70-130	Pass	
Heptachlor	S21-No10451	NCP	%	103		70-130	Pass	
Heptachlor epoxide	S21-No10451	NCP	%	108		70-130	Pass	
Hexachlorobenzene	S21-No10451	NCP	%	104		70-130	Pass	
Spike - % Recovery								
Polychlorinated Biphenyls				Result 1				
Aroclor-1016	S21-No10451	NCP	%	96		70-130	Pass	
Aroclor-1260	S21-No10451	NCP	%	116		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S21-No34060	NCP	%	87		75-125	Pass	
Cadmium	S21-No34060	NCP	%	90		75-125	Pass	
Chromium	S21-No34060	NCP	%	103		75-125	Pass	
Copper	S21-No34060	NCP	%	108		75-125	Pass	
Lead	S21-No34060	NCP	%	99		75-125	Pass	
Mercury	S21-No34060	NCP	%	98		75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Nickel	S21-No34060	NCP	%	109			75-125	Pass	
Zinc	S21-No34060	NCP	%	109			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	S21-No17424	CP	%	85			70-130	Pass	
Naphthalene	S21-No17424	CP	%	72			70-130	Pass	
TRH C6-C10	S21-No17424	CP	%	86			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S21-No17424	CP	%	82			70-130	Pass	
Toluene	S21-No17424	CP	%	77			70-130	Pass	
Ethylbenzene	S21-No17424	CP	%	81			70-130	Pass	
m&p-Xylenes	S21-No17424	CP	%	80			70-130	Pass	
o-Xylene	S21-No17424	CP	%	83			70-130	Pass	
Xylenes - Total*	S21-No17424	CP	%	81			70-130	Pass	
Spike - % Recovery									
				Result 1					
Chloride	S21-No38319	NCP	%	97			70-130	Pass	
Sulphate (as SO4)	S21-No38319	NCP	%	97			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	S21-No23954	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-No23954	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-No23954	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	S21-No23954	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-No23954	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-No23954	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-No28963	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-No28963	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-No28963	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-No28963	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-No28963	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&i)fluoranthene	S21-No28963	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g,h,i)perylene	S21-No28963	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-No28963	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-No28963	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,h)anthracene	S21-No28963	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-No28963	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-No28963	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1,2,3-cd)pyrene	S21-No28963	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-No28963	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-No28963	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-No28963	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S21-No28963	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4,4'-DDD	S21-No28963	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4,4'-DDE	S21-No28963	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4,4'-DDT	S21-No28963	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	S21-No28963	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S21-No28963	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
b-HCH	S21-No28963	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-HCH	S21-No28963	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S21-No28963	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S21-No28963	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S21-No28963	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S21-No28963	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S21-No28963	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S21-No28963	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S21-No28963	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-HCH (Lindane)	S21-No28963	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S21-No28963	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S21-No28963	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S21-No28963	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S21-No28963	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Toxaphene	S21-No28963	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Polychlorinated Biphenyls				Result 1	Result 2	RPD		
Aroclor-1016	S21-No28963	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1221	S21-No28963	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1232	S21-No28963	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1242	S21-No28963	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1248	S21-No28963	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1254	S21-No28963	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1260	S21-No28963	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Total PCB*	S21-No28963	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S21-No34059	NCP	mg/kg	< 2	2.0	16	30%	Pass
Cadmium	S21-No34059	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S21-No34059	NCP	mg/kg	14	9.6	37	30%	Fail Q15
Copper	S21-No34059	NCP	mg/kg	41	19	74	30%	Fail Q15
Lead	S21-No34059	NCP	mg/kg	10	6.5	47	30%	Fail Q15
Mercury	S21-No34059	NCP	mg/kg	0.2	0.5	82	30%	Fail Q15
Nickel	S21-No34059	NCP	mg/kg	41	22	60	30%	Fail Q15
Zinc	S21-No36074	NCP	mg/kg	43	42	1.0	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		
TRH C6-C9	S21-No17423	CP	mg/kg	< 20	< 20	<1	30%	Pass
Naphthalene	S21-No17423	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
TRH C6-C10	S21-No17423	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	S21-No17423	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Toluene	S21-No17423	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Ethylbenzene	S21-No17423	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
m&p-Xylenes	S21-No17423	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
o-Xylene	S21-No17423	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Xylenes - Total*	S21-No17423	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Conductivity (1:5 aqueous extract at 25°C as rec.)	S21-No17426	CP	uS/cm	220	220	<1	30%	Pass
pH (1:5 Aqueous extract at 25°C as rec.)	S21-No17426	CP	pH Units	5.6	5.6	<1	30%	Pass
Resistivity*	S21-No17426	CP	ohm.m	45	46	<1	30%	Pass

Duplicate				Result 1	Result 2	RPD		
% Moisture	S21-No17428	CP	%	11	10.0	6.0	30%	Pass
Chloride	N21-No11769	NCP	mg/kg	59	59	2.0	30%	Pass
Sulphate (as SO4)	N21-No11769	NCP	mg/kg	14	13	9.0	30%	Pass
Duplicate				Result 1	Result 2	RPD		
Conductivity (1:5 aqueous extract at 25°C as rec.)	S21-No17431	CP	uS/cm	17	17	4.7	30%	Pass
pH (1:5 Aqueous extract at 25°C as rec.)	S21-No17431	CP	pH Units	6.6	6.6	<1	30%	Pass
Resistivity*	S21-No17431	CP	ohm.m	580	610	4.7	30%	Pass
Duplicate				Result 1	Result 2	RPD		
Conductivity (1:5 aqueous extract at 25°C as rec.)	S21-No17436	CP	uS/cm	24	25	2.9	30%	Pass
pH (1:5 Aqueous extract at 25°C as rec.)	S21-No17436	CP	pH Units	6.3	6.4	<1	30%	Pass
Resistivity*	S21-No17436	CP	ohm.m	420	400	2.9	30%	Pass
Duplicate				Result 1	Result 2	RPD		
% Moisture	S21-No17438	CP	%	18	18	3.0	30%	Pass

Comments

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
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
Q09	The Surrogate recovery is outside of the recommended acceptance criteria due to matrix interference. Acceptance criteria were met for all other QC
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Andrew Black	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Charl Du Preez	Senior Analyst-Inorganic (NSW)
John Nguyen	Senior Analyst-Metal (NSW)
Roopesh Rangarajan	Senior Analyst-Volatile (NSW)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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Alliance Geotechnical
10 Welder Road
Seven Hills
NSW 2147



NATA Accredited
Accreditation Number 1261
Site Number 1254

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

Attention: **Jacob Walker**

Report **844912-S**
 Project name **ADDITIONAL: KEMPS CREEK**
 Project ID **13546**
 Received Date **Nov 25, 2021**

Client Sample ID			TP52_2.5-2.6	TP62_1.5-1.6	TP86_0.5-0.6	TP101_1.0-1.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-No67233	S21-No67234	S21-No67235	S21-No67236
Date Sampled			Oct 15, 2021	Oct 15, 2021	Oct 15, 2021	Oct 15, 2021
Test/Reference	LOR	Unit				
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	450	200	55	77
Exchangeable Sodium Percentage (ESP)	0.1	%	13	23	4.3	2.3
Magnesium (exchangeable)	0.1	meq/100g	9.7	17	14	6.2
Potassium (exchangeable)	0.1	meq/100g	0.2	0.3	0.3	0.2
Sodium (exchangeable)	0.1	meq/100g	2.2	6.6	1.1	0.6
% Moisture	1	%	21	20	16	12
Cation Exchange Capacity						
Calcium (exchangeable)	0.1	meq/100g	5.0	4.8	8.7	19
Cation Exchange Capacity	0.05	meq/100g	17	29	25	26

Client Sample ID			TP120_2.5-2.6	TP130_1.5-1.6	TP137_2.5-2.6
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S21-No67237	S21-No67238	S21-No67239
Date Sampled			Oct 15, 2021	Oct 15, 2021	Oct 15, 2021
Test/Reference	LOR	Unit			
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	120	16	150
Exchangeable Sodium Percentage (ESP)	0.1	%	14	1.2	27
Magnesium (exchangeable)	0.1	meq/100g	13	8.9	16
Potassium (exchangeable)	0.1	meq/100g	0.4	0.4	0.2
Sodium (exchangeable)	0.1	meq/100g	3.4	0.3	6.2
% Moisture	1	%	8.8	7.6	12
Cation Exchange Capacity					
Calcium (exchangeable)	0.1	meq/100g	7.0	12	0.8
Cation Exchange Capacity	0.05	meq/100g	24	21	23

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Conductivity (1:5 aqueous extract at 25°C as rec.) - Method: LTM-INO-4030 Conductivity	Melbourne	Nov 30, 2021	7 Days
Magnesium (exchangeable) - Method: LTM-MET-3060 Cation Exchange Capacity and ESP	Melbourne	Nov 30, 2021	180 Days
Potassium (exchangeable) - Method: LTM-MET-3060 Cation Exchange Capacity and ESP	Melbourne	Nov 30, 2021	180 Days
Sodium (exchangeable) - Method: LTM-MET-3060 Cation Exchange Capacity and ESP	Melbourne	Nov 30, 2021	180 Days
Cation Exchange Capacity - Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage	Melbourne	Nov 30, 2021	28 Days
Exchangeable Sodium Percentage (ESP) - Method: LTM-MET-3060 - Cation Exchange Capacity (CEC) & Exchangeable Sodium Percentage (ESP)	Melbourne	Nov 30, 2021	28 Days
% Moisture - Method: LTM-GEN-7080 Moisture	Sydney	Nov 29, 2021	14 Days

Company Name:	Alliance Geotechnical	Order No.:		Received:	Nov 25, 2021 3:43 PM
Address:	10 Welder Road Seven Hills NSW 2147	Report #:	844912	Due:	Nov 30, 2021
Project Name:	ADDITIONAL: KEMPS CREEK	Phone:	1800 288 188	Priority:	3 Day
Project ID:	13546	Fax:	02 9675 1888	Contact Name:	Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Eurofins Suite B20	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254						X	
Sydney Laboratory - NATA # 1261 Site # 18217							X
Brisbane Laboratory - NATA # 1261 Site # 20794							
Mayfield Laboratory - NATA # 1261 Site # 25079							
Perth Laboratory - NATA # 2377 Site # 2370							
External Laboratory							
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID		
1	TP52_2.5-2.6	Oct 15, 2021		Soil	S21-No67233	X	X
2	TP62_1.5-1.6	Oct 15, 2021		Soil	S21-No67234	X	X
3	TP86_0.5-0.6	Oct 15, 2021		Soil	S21-No67235	X	X
4	TP101_1.0-1.1	Oct 15, 2021		Soil	S21-No67236	X	X
5	TP120_2.5-2.6	Oct 15, 2021		Soil	S21-No67237	X	X
6	TP130_1.5-1.6	Oct 15, 2021		Soil	S21-No67238	X	X
7	TP137_2.5-2.6	Oct 15, 2021		Soil	S21-No67239	X	X
Test Counts						7	7

Internal Quality Control Review and Glossary
General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

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	US Department of Defense Quality Systems Manual Version
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
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

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

Results <10 times the LOR : No Limit

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

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

NOTE: pH duplicates are reported as a range not as RPD

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

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

QC Data General Comments

- 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.
- 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.
- 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.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test				Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank										
Conductivity (1:5 aqueous extract at 25°C as rec.)				uS/cm	< 10			10	Pass	
Exchangeable Sodium Percentage (ESP)				%	< 0.1			0.1	Pass	
Magnesium (exchangeable)				meq/100g	< 0.1			0.1	Pass	
Potassium (exchangeable)				meq/100g	< 0.1			0.1	Pass	
Sodium (exchangeable)				meq/100g	< 0.1			0.1	Pass	
Method Blank										
Cation Exchange Capacity										
Calcium (exchangeable)				meq/100g	< 0.1			0.1	Pass	
Cation Exchange Capacity				meq/100g	< 0.05			0.05	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1				Acceptance Limits	Pass Limits	Qualifying Code
Duplicate										
					Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C as rec.)	M21-No66871	NCP	uS/cm	58	57	3.0		30%	Pass	
Exchangeable Sodium Percentage (ESP)	S21-No67233	CP	%	13	13	1.0		30%	Pass	
Magnesium (exchangeable)	S21-No67233	CP	meq/100g	9.7	11	14		30%	Pass	
Potassium (exchangeable)	S21-No67233	CP	meq/100g	0.2	0.2	13		30%	Pass	
Sodium (exchangeable)	S21-No67233	CP	meq/100g	2.2	2.5	13		30%	Pass	
Duplicate										
Cation Exchange Capacity										
					Result 1	Result 2	RPD			
Calcium (exchangeable)	S21-No67233	CP	meq/100g	5.0	5.8	15		30%	Pass	
Cation Exchange Capacity	S21-No67233	CP	meq/100g	17	20	14		30%	Pass	
Duplicate										
					Result 1	Result 2	RPD			
% Moisture	S21-No67238	CP	%	7.6	8.6	12		30%	Pass	

Comments**Sample Integrity**

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

Authorised by:

Andrew Black	Analytical Services Manager
Emily Rosenberg	Senior Analyst-Metal (VIC)
Scott Beddoes	Senior Analyst-Inorganic (VIC)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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From: Jacob Walker <jacob.walker@allgeo.com.au>
Sent: Thursday, 25 November 2021 3:43 PM
To: Andrew Black <AndrewBlack@eurofins.com>
Cc: Emma Beesley <EmmaBeesley@eurofins.com>; Sam Jones <SamJones@allgeo.com.au>
Subject: RE: Eurofins Test Results, Invoice - Report 836977 : Site KEMPS CREEK (13546)

EXTERNAL EMAIL *

Hi Andrew,

I know this is a bit out of holding time, but is there any way we can get suite B20 done on the following samples, 24 hours tat?

- TP52-2.5-2.6;
- TP62-1.5-1.6;
- TP86-0.5-0.6;
- TP101-1.0-1.1;
- TP120-2.5-2.6;
- TP130-1.5-1.6; and
- TP137-2.5-2.6.

Thanks!

Regards,

Jacob Walker

Environmental Consultant

Mobile: 0424 066 612 | **Email:** jacob.walker@allgeo.com.au



Office Phone: 1800 288 188
Admin Email: admin@allgeo.com.au
Website: allgeo.com.au
Office & Lab: 8-10 Welder Road, Seven Hills NSW 2147
Postal Address: PO Box 275, Seven Hills NSW 1730

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Alliance Geotechnical
10 Welder Road
Seven Hills
NSW 2147



NATA Accredited
Accreditation Number 1261
Site Number 1254

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 NATA is a signatory to the ILAC Mutual Recognition
 Arrangement for the mutual recognition of the
 equivalence of testing, medical testing, calibration,
 inspection, proficiency testing scheme providers and
 reference materials producers reports and certificates.

Attention: **Jacob Walker**

Report **844919-S**
 Project name **ADDITIONAL: ADDITIONAL KEMPS CREEK**
 Project ID **13546**
 Received Date **Nov 25, 2021**

Client Sample ID			TP44 2.0-2.1	DR12 0.1-0.2
Sample Matrix			Soil	Soil
Eurofins Sample No.			S21-No67284	S21-No67285
Date Sampled			Oct 12, 2021	Oct 12, 2021
Test/Reference	LOR	Unit		
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	46	94
Exchangeable Sodium Percentage (ESP)	0.1	%	13	9.5
Magnesium (exchangeable)	0.1	meq/100g	15	11
Potassium (exchangeable)	0.1	meq/100g	0.3	0.3
Sodium (exchangeable)	0.1	meq/100g	2.8	1.7
% Moisture	1	%	14	16
Cation Exchange Capacity				
Calcium (exchangeable)	0.1	meq/100g	4.1	5.7
Cation Exchange Capacity	0.05	meq/100g	22	18

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Conductivity (1:5 aqueous extract at 25°C as rec.) - Method: LTM-INO-4030 Conductivity	Melbourne	Dec 08, 2021	7 Days
Magnesium (exchangeable) - Method: LTM-MET-3060 Cation Exchange Capacity and ESP	Melbourne	Dec 08, 2021	180 Days
Potassium (exchangeable) - Method: LTM-MET-3060 Cation Exchange Capacity and ESP	Melbourne	Dec 08, 2021	180 Days
Sodium (exchangeable) - Method: LTM-MET-3060 Cation Exchange Capacity and ESP	Melbourne	Dec 08, 2021	180 Days
Cation Exchange Capacity - Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage	Melbourne	Dec 08, 2021	28 Days
Exchangeable Sodium Percentage (ESP) - Method: LTM-MET-3060 - Cation Exchange Capacity (CEC) & Exchangeable Sodium Percentage (ESP)	Melbourne	Dec 08, 2021	28 Days
% Moisture - Method: LTM-GEN-7080 Moisture	Sydney	Nov 29, 2021	14 Days

Company Name:	Alliance Geotechnical	Order No.:		Received:	Nov 25, 2021 3:47 PM
Address:	10 Welder Road Seven Hills NSW 2147	Report #:	844919	Due:	Dec 9, 2021
Project Name:	ADDITIONAL: ADDITIONAL KEMPS CREEK	Phone:	1800 288 188	Priority:	3 Day
Project ID:	13546	Fax:	02 9675 1888	Contact Name:	Jacob Walker

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Eurofins Suite B20	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254						X	
Sydney Laboratory - NATA # 1261 Site # 18217							X
Brisbane Laboratory - NATA # 1261 Site # 20794							
Mayfield Laboratory - NATA # 1261 Site # 25079							
Perth Laboratory - NATA # 2377 Site # 2370							
External Laboratory							
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID		
1	TP44 2.0-2.1	Oct 12, 2021		Soil	S21-No67284	X	X
2	DR12 0.1-0.2	Oct 12, 2021		Soil	S21-No67285	X	X
Test Counts						2	2

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

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	US Department of Defense Quality Systems Manual Version
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
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

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

Results <10 times the LOR : No Limit

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

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

NOTE: pH duplicates are reported as a range not as RPD

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

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

QC Data General Comments

- 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.
- 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.
- 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.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test				Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank										
Exchangeable Sodium Percentage (ESP)				%	< 0.1			0.1	Pass	
Magnesium (exchangeable)				meq/100g	< 0.1			0.1	Pass	
Potassium (exchangeable)				meq/100g	< 0.1			0.1	Pass	
Sodium (exchangeable)				meq/100g	< 0.1			0.1	Pass	
Method Blank										
Cation Exchange Capacity										
Calcium (exchangeable)				meq/100g	< 0.1			0.1	Pass	
Cation Exchange Capacity				meq/100g	< 0.05			0.05	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1				Acceptance Limits	Pass Limits	Qualifying Code
Duplicate										
					Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C as rec.)	S21-No67284	CP	uS/cm	46	58	22		30%	Pass	
Exchangeable Sodium Percentage (ESP)	M21-No71771	NCP	%	4.2	4.0	5.0		30%	Pass	
Magnesium (exchangeable)	M21-No71771	NCP	meq/100g	2.5	2.7	9.0		30%	Pass	
Potassium (exchangeable)	M21-No71771	NCP	meq/100g	0.2	0.3	14		30%	Pass	
Sodium (exchangeable)	M21-No71771	NCP	meq/100g	0.4	0.5	9.0		30%	Pass	
% Moisture	S21-No67284	CP	%	14	14	3.0		30%	Pass	
Duplicate										
Cation Exchange Capacity										
					Result 1	Result 2	RPD			
Calcium (exchangeable)	M21-No71771	NCP	meq/100g	6.9	8.1	15		30%	Pass	
Cation Exchange Capacity	M21-No71771	NCP	meq/100g	10	12	13		30%	Pass	

Comments**Sample Integrity**

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

Authorised by:

Emma Beesley	Analytical Services Manager
Scott Beddoes	Senior Analyst-Inorganic (VIC)
Emily Rosenberg	Senior Analyst-Metal (VIC)



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

Measurement uncertainty of test data is available on request or please [click here](#).

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2 DAY TAT ADDITIONAL ANALYSIS: FW: Eurofins Test Results, Invoice - Report 838889 : Site ADDITIONAL: KEMPS CREEK (13546)

Andrew Black <AndrewBlack@eurofins.com>

Thu 11/25/2021 3:47 PM

To: #AU04_Enviro_Sample_NSW <EnviroSampleNSW@eurofins.com>

Urgent 2 day TAT additional analysis that all has to be sent to Melbourne please

Andrew Black

Analytical Services Manager**Eurofins | Environment Testing**

Unit 7

7 Friesian Close

SANDGATE, NSW, 2304

AUSTRALIA

Phone: +61 2 9900 8490

Mobile: +61 410 220 750

For sample receipt enquiries (eg. SRAs, changes to analysis) please contact EnvirosampleNSW@eurofins.com or 02 9900 8421 (7am – 9pm).
For despatch enquiries (eg. courier bookings, bottle orders) please contact AU04_Despatch_SYD@eurofins.com or 0488 400 929 (8am – 4pm).

Email: AndrewBlack@eurofins.comWebsite: eurofins.com.au/environmental-testing

From: Jacob Walker <jacob.walker@allgeo.com.au>**Sent:** Thursday, 25 November 2021 3:47 PM**To:** Andrew Black <AndrewBlack@eurofins.com>**Cc:** enviro <enviro@allgeo.com.au>; Sam Jones <SamJones@allgeo.com.au>**Subject:** RE: Eurofins Test Results, Invoice - Report 838889 : Site ADDITIONAL: KEMPS CREEK (13546)

EXTERNAL EMAIL*

Hey mate,

Can I get the same, B20 ion exchange suite on fastest tat for the following:

- PP4 1.5-1.6;
- TP44 2.0-2.1; and
- PP6 2.4-2.5

Regards,

Jacob Walker

Environmental Consultant

Mobile: 0424 066 612 | **Email:** jacob.walker@allgeo.com.au

Office Phone: 1800 288 188
Admin Email: admin@allgeo.com.au
Website: allgeo.com.au
Office & Lab: 8-10 Welder Road, Seven Hills NSW 2147
Postal Address: PO Box 275, Seven Hills NSW 1730

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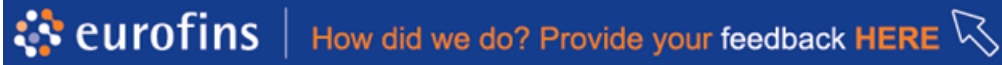
From: AndrewBlack@eurofins.com <AndrewBlack@eurofins.com>**Sent:** Thursday, 18 November 2021 12:01 PM**To:** Jacob Walker <jacob.walker@allgeo.com.au>**Cc:** enviro <enviro@allgeo.com.au>; Sam Jones <samjones@allgeo.com.au>**Subject:** Eurofins Test Results, Invoice - Report 838889 : Site ADDITIONAL: KEMPS CREEK (13546)

Kindest Regards,

Andrew Black
Analytical Services Manager

Eurofins | Environment Testing

Unit 7
7 Friesian Close
SANDGATE NSW 2304
AUSTRALIA
Phone: +61 299 008 490
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