Detailed Site Investigation

200 Aldington Road, Kemps Creek NSW

Prepared for: Fife Capital Pty Ltd

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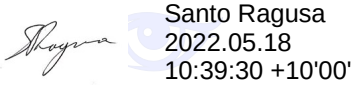
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Abbreviations

ADE	ADE Consulting Group Pty Ltd
ACM	Asbestos Containing Material
ASS	Acid Sulfate Soil
AST	Aboveground Storage Tank
BGL	Below Ground Level
BTEX	Benzene, Toluene, Ethylbenzene, Xylene
CoC	Chain of custody
CoPC	Contaminants of Potential Concern
CSM	Conceptual Site Model
DBYD	Dial Before You Dig
DEC	Department of Environment & Conservation
DP	Deposited Plan
DNAPL	Dense Non-Aqueous Phase Liquid
DLWC	Department of Land and Water Conservation
DSI	Detailed Site Investigation
EPA	Environment Protection Agency
HEPA	Heads of EPAs Australia and New Zealand
HILs	Health Investigation Levels
HMS	Hazardous Materials Survey
HSLs	Health Screening Levels
LAA	Licensed Asbestos Assessor
LEP	Local Environment Plan
LIR	Land Insight Resources
LNAPL	Light Non-Aqueous Phase Liquid
LTO	Land Titles Office
LEP	Local Environmental Plan
LGA	Local Government Area
NATA	National Association of Testing Authorities
NEPC	National Environmental Protection Council
NEPM	National Environmental Protection Measure
NSW	New South Wales
OCPs	Organochlorine Pesticides
OEH	Office of Environment & Heritage
OPPs	Organophosphorus Pesticides
PAHs	Polycyclic aromatic Hydrocarbons
PASS	Potential Acid Sulfate Soil
PFAS	Per- and Poly-fluoroalkyl substances
PSI	Preliminary Site Investigation
PCBs	Polychlorinated Biphenyls
RAP	Remedial Action Plan
SAC	Site Assessment Criteria
SCC	Specific Contaminant Concentration
SMF	Synthetic Mineral Fibre
SH&EWMS	Safety, Health & Environmental Work Method Statement
TCLP	Toxicity Leaching Procedure
TRHs	Total Recoverable Hydrocarbons
UCL	Upper Confidence Level
UFP	Unexpected Finds Protocol
UST	Underground Storage Tank
WQM	Water Quality Meter

Executive Summary

Fife Capital intends to redevelop the area subject to this investigation at the site located at 200 Aldington Road, Kemps Creek New South Wales (NSW) (the site), within Lots 20-23 in DP 255560 and Lots 30-32 in DP258949 for a proposed industrial estate for commercial/industrial use with access to soil proposed within Lots A, D & L (*refer to APPENDIX VII - Masterplan and Stage 1 Plans August 2021*). ADE Consulting Group Pty Ltd (ADE) was engaged by Fife Capital to undertake a Detailed Site Investigation (DSI) which is required as part of the Development Consent.

The objective of the DSI is to:

- Prepare a Detailed Site Investigation (DSI) for the site that presents an assessment of the areas of concern identified in the Limited Desktop Preliminary Site Investigation and subsequent inspection, conducted by ADE in 2021, respectively
- Provide an opinion on the suitability for the site for the proposed development in accordance with development application.

As part of this DSI, ADE sampled 124 test pit locations using a 10-tonne excavator. All but 1 sample returned with concentrations below that of the adopted human health assessment criteria for Tier 1 screening purposes for commercial/industrial sites (HIL-D) and health screening levels for vapour intrusion and direct human contact (HSL-D), as outlined in the NEPM (*NEPC, 2013*). The investigation identified 1 elevated concentration of contaminates in soil materials across the site. Sample TP27-fill-0.1 returned an exceedance of 4.68 mg/kg in relation to Benzene, however, did not exceed 2.5 times HSL-D criteria, therefore a UCL95 was adopted from similar samples collected within the same Lot (Lot 21 DP 255560) and returned an acceptable reading of 1.609, which is below the 3 mg/kg HSL-D criteria.

Based on the results of the investigation, and in the context of the proposed industrial estate, ADE has concluded the site can be considered suitable for the intended land use.

1 Introduction

1.1 Background and General Information

ADE Consulting Group Pty Ltd (ADE) was engaged by Fife Capital Pty Ltd (the client) to undertake a DSI within the proposed development area within the property at 200 Aldington Road, Kemps Creek, Lots 20-23 in DP 255560 and Lots 30-32 in DP258949. The area subject to the proposed development (hereafter referred to as 'the site'), is shown in *Appendix I –Figures*.

This report was designed to assess the site regarding areas of concern and contaminants of potential concern (CoPC) identified during the Phase I Preliminary Site Investigation (PSI), completed by Douglas Partners PSI (2019) (refer to Section 3).

The purpose of this DSI is to assess the nature and extent of potential contamination within soil at the site. This was undertaken through:

- Completion of a desktop review of previous investigations and known information sources
- Conduct a detailed soil investigation for the identified CoPCs outlined within the Stage I PSI and subsequent site inspection (refer to Section 3)
- Submission of all samples to NATA accredited laboratories and
- Preparation of a Stage I DSI report outlining the investigations methodology, interpretation of the results, to make conclusions and recommendations concerning contamination impacting both environmental and human health within the site

The site investigation and corresponding sampling regime were undertaken throughout the period of 15 December 2021 to 14 January 2022 which involved the collection and subsequent analysis of soil. The selected samples were compared against the adopted Site Assessment Criteria (SAC) outlined within Section 7, to determine if the site is suitable for the proposed land use**.**

1.2 Proposed Development

ADE understands that the site is to be upgraded for the full property frontage and will include kerb & gutter, street drainage, path paving, landscaping, and undergrounding of all utility assets. An overview of proposed Stage 1 works include:

- Demolition and clearing of all existing built form structures
- Drainage and infill of existing farm dams and any ground dewatering
- Clearing of all existing vegetation
- Bulk earthworks including 'cut and fill' to create flat development platforms for the warehouse buildings, and site stabilization works (if required)
- Roadworks and access infrastructure
- Stormwater and drainage work including stormwater basins, diversion of stormwater lines, gross pollutant traps and associated swale works
- Sewer and potable water reticulation
- Inter-allotment, road and boundary retaining walls
- Subdivision of the site into 15 individual lots
- Construction of a warehouse building with a total of 50,930 sqm of GFA, including: 48,430 sqm of warehouse GFA, 2,500 sqm of ancillary office GFA, 231 car parking spaces.

1.3 Objectives

The primary objective of this investigation is to characterise shallow fill material that may be subject to excavation as part of the proposed development. The objectives of the investigation will be achieved by:

- Summarising past and present potentially contaminating activities through a desktop study supported by information obtained from the Phase I PSI (DP 2019)
- Assessing the contamination status of the site, which may have been impacted by past / present land use and/or off-site contamination from the surrounding area
- Completing an intrusive investigation program developed in accordance with the NSW Environment Protection Authority (EPA) 1995 *Sampling Design Guidelines* (NSW EPA, 1995) and National Environment Protection (Assessment of Site Contamination) Measure 1999, 2013 Amendment (NEPC 2013)
- Assessing and describing the source, type, extent and level of contamination by comparing the collected soil data against the adopted SAC outlined in guidelines including, but not limited to, NEPM (NPEC, 2013), PFAS National Environmental Management Plan v2.0 (NEMP, 2020) and other relevant guidelines, as outlined throughout this report
- Determine the potential risks posed to human health and environment (if present) and
- Provide an assessment of the site and develop recommendations for remedial works or ongoing management based on the findings (if required).

1.4 Scope of Work

The Scope of work for the investigation involved the following:

1.4.1 Phase One – Desktop Review

- Desktop review of the site plans, previous environmental investigations, selected aerial photographs, title records, NSW EPA public registers and council planning records/ certificates
- Obtain and review Dial Before You Dig (DBYD) documentation.

1.4.2 Phase Two – Field Investigation

- Understanding and sign on to a job specific Safety, Health & Environmental Work Method Statement (SH&EWMS) and the completion of a toolbox talk before undertaking works
- Excavation of 124 test pits using a 10-tonne excavator
- Field logging of soil profile and site observations
- Soil sampling of the fill and natural materials to a maximum depth of 2.0 m below ground level (bgl)
- Field screening of collected samples for Volatile Organic Compounds (VOCs) using a calibrated Photo-ionisation Detector (PID)
- Cold storage of all soil samples collected and analysis of samples for the following analytes based on the findings outlined in the Stage I PSI (DP, 2019) and the Conceptual Site Model (CSM):
  - Asbestos (500 mL sample), BTEX, Heavy Metals (Arsenic, Cadmium Chromium, Copper, Lead, Mercury, Nickel and Zinc), OCPs / OPPs, Polycyclic Aromatic Hydrocarbons (PAHs), Phenols, Clay Content, Salinity, Polychlorinated biphenyl (PCB), Recoverable Hydrocarbons (TRHs), Volatile Organic Compounds (VOCs) and Per-and Polyfluoroalkyl Substances (PFAS)

1.4.3 Phase Three – Analytical Test Work

Submission of samples to NATA accredited laboratories for analysis under Chain of Custody (CoC) documentation.

1.4.4 Phase Four – Data Assessment and Conclusions

- Interpretation of analytical results and field observations in accordance with relevant guidelines and codes of conduct described below in Section 1.5
- Preparation of a DSI report outlining the investigation, interpretation of results, and including conclusions and recommendations with reference to the proposed development.

1.5 Guidelines and Codes of Practice

The legislative framework for the report is based on guidelines that have been issued and/or endorsed by the NSW Environmental Protection Authority (EPA), formerly the Office of Environment and Heritage (OEH) under the following Acts/Regulations:

- Contaminated Land Management Act 1997
- Environmental Planning and Assessment Act 1979
- Protection of the Environment Operations Act 1997
- State Environmental Planning Policy (SEPP) 55 'Remediation of Land'

The relevant guidelines issued under the provisions of the Acts/Regulations include:

- Guidance for the Preparation of Standard Operating Procedures for Quality-Related Documents (EPA QA/G-6)
- Guidance on Data Quality Indicators, EPA QA/G-5I
- Guidelines for the NSW Site Auditor Scheme (3rd Edition), NSW 2017
- Guidelines on the Duty to Report Contamination (2015) under the Contaminated Land Management Act 1997
- Guidance for the Data Quality Objectives Process (EPA QA/G-4)
- Guidance for Data Quality Assessment: Practical Methods for Data Analysis (EPA QA/G-9)
- National Functional Guidelines for Inorganic Data Review, USEPA, (1994)
- NSW EPA Contaminated Sites: Sampling Design Guidelines (NSW EPA 1995)
- National Environmental Protection Council [NEPC]. (2013). National Environmental Protection Measure 1999, 2013 Amendment (NEPC, 2013)
- New South Wales Environmental Protection Agency [NSW EPA]. (2020). Consultants reporting on contaminated land - Contaminated Land Guidelines (NSW EPA, 2020) and
- The Heads of EPAs Australia and New Zealand [HEPA]. (2020). PFAS National Environmental Management Plan Version 2.0, dated January 2020 (HEPA, 2020).

Australian Standards applied to this investigation:

- Australian Standard AS 4482.2 Guide to the sampling and investigation of potentially contaminated soil. Part 2: Volatile substances, (Standards Australia, 1999)
- Standards Australia Australian Standard AS4964-2004: Method for the qualitative identification of asbestos in bulk samples (Standards Australia, 2004) and
- Australian Standard AS 4482.1 Guide to the sampling and investigation of potentially contaminated soil. Part 1: Non-volatile and semi-volatile compounds (Standards Australia, 2005).

The following local government plans have also been taken into consideration for the preparation of this DSI:

- Penrith City Council Environmental Plan (2010).

2 Site Identification and Details

2.1 Site Location

The site entails Lots 20-23 in DP 255560 and Lots 30-32 in DP258949 located at 200 Aldington Road, Kemps Creek NSW and comprises an approximate area of 72.09 hectares (ha). The site is currently used for agricultural purposes. The location of the site is defined by an irregular Shape and is shown below in Figure 1 (refer to *Appendix I - Figures).*

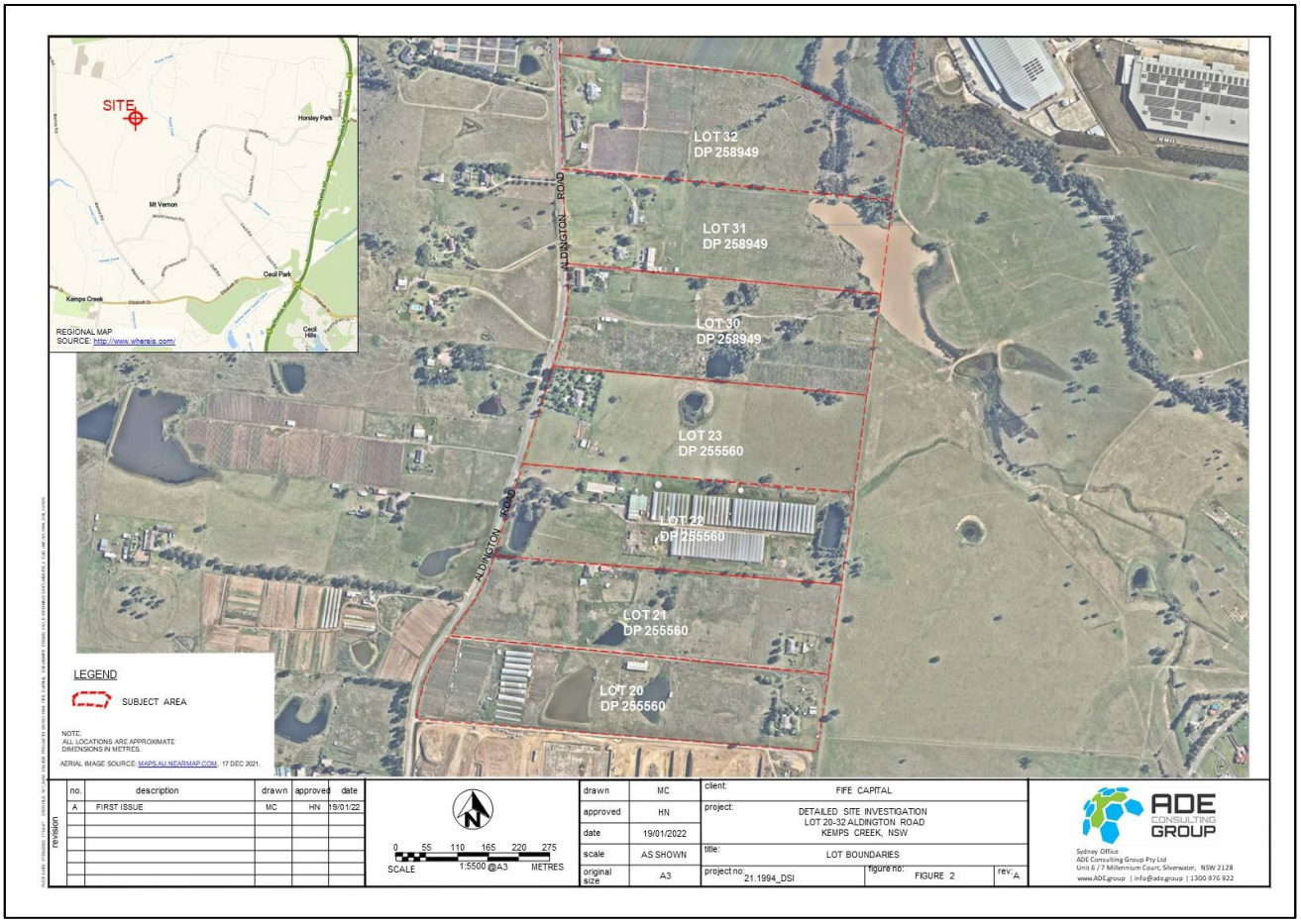


Figure 1. Site boundary outlined in red (image adapted from *Nearmap*; accessed on 19.01.2022).

2.2 Summary of Site Details

Table 1. Summary of Site Identification Details for the Site.

Site Details	
Site Address	200 Aldington Road, Kemps Creek NSW
Title Identification	Lots 20-23, DP 255560 Lots 30-32, DP 258949
LGA	Penrith City Council
Current Land Use Zoning	Agriculture & rural
Site Area	Approximately 72.09 ha
Current Site Owner / Occupier	Fife Capital
Former and current land use	Agriculture
Local Environmental Plan	Penrith City Council Environmental Plan (2010).

3 Previous Environmental Investigations

The summaries of previous environmental investigations made available to ADE have been summarised as follows to inform the conceptual site model and data gaps required to be addressed for the DSI.

3.1 KPMG SGA Property Consultancy Pty Ltd (KPMG) Site Review of Contamination and Assessment (KPMG 2019)

The first investigation on this site was conducted by KPMG to assess the site through a soil sampling program, desktop review of background information (aerial photographs and NSW EPA data base), and a site walkover to identify further possible contamination sites.

A review of historical aerial photographs was conducted from 1955 through to 2018. From 1955 to 1972 only two dams were created in the north and south with the rest of the area being open vacant farmland. In 1972 through to 1982 the construction of serval houses and associated shed along with market gardens were built. By 1992 an additional house in the northwest and glass houses in the south were constructed with more being added in the center in 2004. No discernable changes were observed from 2004 to 2018. There was concern over the houses containing asbestos with fibre cement sheeting (FCS) being observed in all but one house with some having additional structures like chook coops being made of FCS. Further testing would be needed to confirm the presence of asbestos within these structures. Fragments of FCS containing asbestos have been found in demolition dumps within Lot 20 and Lot 22.

The site has a continued history of market gardens and farmland which has led to many decades of chemical use in the form of herbicides and pesticides. Mixing areas of these chemicals were very closely related to the dams on each property (bar Lot 23) and have a high chance to leaked or spill (no bunding was observed) into the water source or adjacent land.

KPMG concluded the site has a moderate potential for significant soil and groundwater contamination to be present, with a low risk of off-site migration of the potential contamination. The primary source of contamination to the site was likely due to the market gardens. Also noted was a further targeted investigation should be considered on the present and former areas of the market gardens.

3.2 Douglas Partners (DP) Preliminary Site Investigation (PSI) - Proposed Commercial/Industrial Subdivision 144-228 Aldington Rd, Kemps Creek NSW Project: 92364, October 2019 (DP, 2019)

The primary objective of DP (2019) was to review previous investigation conducted by KPMG, to identify further potential areas of concern and to provide a preliminary assessment of site contamination. Preliminary geotechnical and salinity investigations were also carried out.

Further review of the historical aerials of the area revealed that Lot 20 (1991-2002) and Lot 22 (2002-2009) have had the demolition of greenhouses. Potential areas of fill in the south of Lot 22 (1991) and a series of multiple fills in the easter section also occurring between 2015 and 2019.

DP found additional areas of concern for contamination from the site inspection. Surficial waste of drums with unknown liquids, burned drums, batteries, metal, pallets, bottles, foam, and plastics were present arounds sheds and dams. Further arounds dams are hummocky land and small stockpiles which DP found a concern for containing more potential contamination; this would need to be further investigated. Timber power poles were also considered to be of risk at leaching timber treatment chemicals into the surrounding soils.

Collection of soil samples from 12 test pits from a grid formation with an additional six targeted test pits on areas of concern. Depths ranging from 0 – 0.2m, 0.2 – 0.5m and repeated at regular intervals until natural soil

is observed (if possible). Sampling sites which were tested for TPH's, heavy metals, PAH's, phenols, BTEX, pesticides (OCP, OPP and PCB), and asbestos. All results for TRH, Btex, OCP's, OPP's, PCB's and Phenols were detected at concentration not exceeding regulation levels. One sample exceeded Ecological and Health Screening and Investigation safe levels of PAH's (SS18 benzo(a)pyrene (BaP) TEQ at 61mg/kg). Heavy metal samples had two zinc samples with exceeding Ecological Screening and Investigation levels (SS15 at 2400mg/kg and SS20 at 780mg/kg) and one had exceeding ESLs/ EILs of arsenic (SS14 at 230mg/kg). Asbestos (chrysotile) was detected in two material samples (MAT-1 and MAT-2) with no soil samples coming back with contamination.

DP concluded that based on their results of the site that there is a moderate to high potential for contamination. Recommendation on further investigations on:

- Current and former market gardens;
- Chemical and fuel mixing and storage areas;
- Dam sediments;
- Stockpiles, fill, driveways, and ground disturbances; and
- Timber power poles.

Also, investigation on the footprints of former sheds and the soils in the vicinity of current structures following demolition to assess for the presence of possible contaminates.

Douglas Partners have devised a Summary of Potential and Assigned AEC which has been used to assess the potential risks and harm being caused to human and ecological receptors from contamination sources on or in the vicinity of the site. The potential source and assigned AEC (1-7) as well as the requirement for additional data and/or management have been provided in **Table 2** below.

3.3 Douglas Partners (DP) Report on Preliminary Geotechnical Investigation and Preliminary Salinity Assessment - Proposed Commercial/Industrial Subdivision 144-228 Aldington Rd, Kemps Creek NSW Project: 92364, October 2019 (DP, 2019)

This report details the geotechnical landscape of the site explaining that surface levels generally fall from a low ridge which runs diagonally across the site in a northwest to southeast direction towards Aldington Road and the northeastern corner at grades of approximately 1 in 30 to 1 in 65. The overall distance in level is estimated to be approximately 27m from the highest parts of the site near the northwest and southeast corners at about RL 86 m relative to AHD to the lowest near the southwest corner at RL 59 m AHD.

DP reference the Map of Salinity Potential for Western Sydney which indicates known salinity and high salinity potential around the primary creek line/ dam in the northeast corner of the site and moderate salinity potential for the remainder of the site. The mapping is based on soil type, surface level and general groundwater considerations and thus is approximate only. The tests conducted on salinity of 50 samples showed results of the following:

- 14 samples non saline
- 25 samples slightly saline
- 10 samples moderately saline
- one sample very saline.

This investigation included the excavation of 19 test pits and 2 boreholes with depths up to 3m below surface level with a backhoe. The boreholes were drilled with truck mounted drilling rigs to depths of 9.7m and 8.4m respectively. The general lithological outlay of the site was identified as the following:

- Topsoil: silty clay and clayey silt topsoil, to depths of 0.1-0.3,

- Fill: silty clay with some anthropogenic materials to depths 0.3-1.4m
- Residual soil: variably stiff and hard clay and silty clay to depths of 0.6-3.3
- Bedrock: very low strength sandstone, shale first contact at depths 0.6-2.6m and continuing to depths of 3 to 8 metres, varying in exact depth of excavation.

3.4 Douglas Partners (DP) Contamination Status Summary Report- Proposed Industrial Development 200 Aldington Road Kemps Creek NSW Project: 92421, September 2021 (DP, 2021)

DP 2021 provided a response to submissions by the Department of Planning Industry and Environment (DPIE) in March 2021 in reference to the DPIE's Secretary's Environmental Assessment Requirements (SEARs). Following the public exhibition of the project, amendments were made to respond to issues raised. This included a full assessment of the project against the Draft Mamre Road Precinct Development Control Program (draft MRP DCP).

This report also summarised findings from the DP PSI which included a recommendation for further contamination investigation. A summary of the AEC and associated COPC identified in the PSI was provided in a table below.

Table 3. AEC's and Associated COPC's

AEC #	Description	COPCs
1	**Market Gardens**- Potential for surface soils in the market gardens to be impacted with pesticide related COPC	OCP, OPP, metals
2	**Current and former structures-** numerous residential structures and sheds are located within the site. The location of several former structures were also identified. Given the age of the structures (often pre 1980's) there is the potential for surface soils in the vicinity of the structures (former and current) to be impacted by hazardous building materials.	Asbestos containing material (ACM), PCBs, metals
3	**Chemical and fuel storage-** former and current sheds may have been used for chemical and fuel storage. Multiple pesticide storage and mixing areas were identified, associated with market gardening activities. Fuel storage and refueling areas, including three above ground storage tanks (AST) were also identified. There is potential for contamination of surface soils in the vicinity of these areas resulting from spillages and storage malpractice.	TRH, BTEX, PAH, PCB, metals, OCP, OPP
4	**Fill Material**- multiple stockpiles, areas of fill and ground disturbance were observed within the site. Stockpiles and fill may have been generated from impacted on or off-site sources. Areas of ground disturbance are potential indicators of filling. Imported aggregate fill has been placed on several access roads within the site. ACM associated with fill was identified in several locations.	TRH, BTEX, PAH, PCB, metals, OCP, OPP, asbestos
5	**Timber power poles-** multiple timber power poles are present within the site. Timber treatment chemicals associated with the poles have the potential to leach into, and impact, surrounding soils.	TRH, BTEX, PAHs, metals
6	**Possible asbestos pipes-** asbestos pipes may be present at the site, both from legacy utility trenches and from private networks installed by lot owners. Degradation and damage of pipes may lead to hazardous materials being present within the near surface soils.	Asbestos

7	**Refuse-** Refuse including building demolition waste was observed in multiple areas of the site. Building demolition waste is a potential indicator for asbestos.	Aesthetic issues and asbestos

Based on the findings of the PSI and SCI, and review of recent aerial photographs taken since the completion of previous reports, DP considered that the site could be made suitable for the proposed industrial land use subject to further investigation and / or remediation of the identified AEC as follows:

- AEC 1: Further investigations are required to confirm the contamination status of surface soils in market gardens within lots 31 and 32. Market gardens in Lots 20- 23 and 30 are considered suitable for the proposed use
- AEC 2: Further investigations are required to confirm the contamination status of surface soils in the vicinity of former and current structures. A hazardous material assessment should be completed for current structures prior to demolition, with structure footprints investigation following demolition
- AEC 3- Further investigations are required to confirm the contamination status of surface soils in chemical and fuel storage areas within Lots 31 and 32 and at SCI sampling locations SS15, SS20, TP 120 and TP122. Other identified chemical and fuel storage areas are considered suitable for the proposed use
- AEC 4- Further investigations are required to confirm the contamination status of fill material within Lots 31 and 32 and at AEC 4 A, B, C, F, G, I, J, K and L. Fill material at AEC 4 D, E and H are considered suitable for the proposed use
- AEC 5- Remediation of soil at the base of power poles is required at Lots 20- 23 and 30. Further investigations are required to confirm the contamination status of soil at the base of power poles within Lots 31 and 32
- AEC 6- Buried asbestos pipes (if present) may become apparent during remediation and would normally require remediation under an unexpected finds protocol
- AEC 7- Removal of surface refuse would be required as part of initial site development works

3.5 Summary of previous reports

Both KPMG (2019) and DP (2019) recognise the potential for moderate to high potential for this site to be contaminated; particularly from the previous and current activity surrounding the market gardens and their associated chemicals use.

Various heavy metals and one PAH's sample were identified in excess of the assessment criteria, as well as some samples shown to contain asbestos, likely attributed to both on site market gardens and demolition of former structures.

The Contamination Status Summary Report (DP 2021) detailed the seven AEC's that were identified in the PSI which were investigated and determined by DP to be possible to be remediated and made suitable for the proposed development

DP's Preliminary Geotechnical and Salinity Assessment identified the geotechnical and topographical landscape of the site. 50 salinity samples produced results that demonstrated that only one sample was highly saline and 80% of samples were slightly to not saline. The 19 test pits that were excavated provided a general lithology outlay of the site which was predominantly silty clay fill to approximately 1.4m followed by stiff and hard clays to approximately 3.3m and a bedrock and sandstone and shale.

4 Site Condition and Surrounding Environment

The following table represents a summary of the site condition and surrounding environment:

Table 4. Summary of Site Condition and Surrounding Environment.

Attribute	Description
Site Inspection Details	The site inspection and soil sampling were undertaken on the throughout the periods of 15 December 2021 to 14 January 2022 by experienced environmental consultants representing ADE.
Topography and Elevation	The north-western portion of the site is generally covered by dwellings, tall grass, and agricultural land, having a moderate slope to the east. The eastern boundary of the site contains a manmade dam. The southern portion of the site generally grades to the west, being predominantly covered by tall grass and greenhouses with dwellings and other structures bordering the eastern boundary. The site was comprised of slopes roughly up to 8 degrees. Local slopes dipping to the northwest at angles up to 12 degrees.
Surrounding Land Use	The site is situated amongst an area comprised predominantly of rural and farming uses, with a major proportion of the land being covered with crops and greenhouses.
Surface Cover and Conditions	Much of the investigation area is overlain by greenhouses and farmland, long-grass, dense vegetation, and dams made for irrigation and drainage.
Local Geology	The precinct is underlain by Bringelly Shale and carbonaceous claystone, laminate, and coal. Bringelly Shale is a major formation of the Wianamatta group that outcrops over the large area of Western Sydney. The shale is comprised predominantly of claystones and siltstones with occasional sandstone layers. It is highly compacted, weakly cemented and contains significant amounts of swelling minerals. Surface levels are seen to fall from a low ridge that runs diagonally across the site in a north western to south eastern direction towards Aldington Road.
Hydrology	The site consists of multiple man-made dams for the purposes of irrigation and drainage. It is ADE's opinion that the ground water will flow in an approximate direction of northwest due to topography and location of Kemps Creek. Ropes creek is a watercourse that is part if the Hawkesbury-Nepean catchment located approximately 450 m east of the site. Kemps Creek located in 1.5km southeast of the site and is a tributary of South Creek which flows into the Hawkesbury River.

5 Data Quality Objectives

As stated in Section 18 Appendix B of Schedule B2 – Guideline on Site Characterisation in the ASC NEPM (NEPC 1999, amended 2013), the data quality objectives (DQO) process is a seven-step iterative planning approach used to define the type, quantity and quality of data needed to support decisions relating to the environmental condition of a site.

5.1 Step 1 – State the Problem

The objective is to determine the nature and extent of soil contamination at the site to assess if the site is suitable (or can be made suitable) for the proposed development of an industrial estate.

5.2 Step 2 – Identify the Decision

Based on a review of previous environmental investigations undertaken at the site, the following decisions need to be made:

- Is contamination present at the site above relevant investigation levels for commercial/industrial use?
- Is contamination present at the site that may present a risk to future inhabitants of the site, neighbouring properties or surrounding receptors?
- Is the remediation of soil required to render the site suitable for the proposed commercial/industrial land use?

5.3 Step 3 – Identify Inputs to the Decision

To address the decision questions outlined in Step 2 of the DQOs (refer to **Section 5.2**), the following inputs to the decision have been identified:

- Information from previous site investigations
- Observations made during the field works
- Results of the soil samples collected during the investigation
- Relevant regulatory guidelines

5.4 Step 4 – Definite Boundaries of the Study

The investigation boundaries are presented in Table 5.

Table 5. Summary of the Study Boundaries

Spatial Boundaries	The lateral boundaries of the site are limited to the proposed development area as shown in Appendix I – Figures, and Appendix VII – Supporting Documents. The vertical boundary for soil contamination within the site is limited to in-situ soils extending from the surface to approximately 0.5 m below ground level.
Temporal Boundaries	The investigation works were undertaken from the period of the 15 December 2021 to 14 January 2022.
Investigation Limit	The limit of the investigation extent was defined by previous investigations and the proposed development plans.
Constraints	Sampling locations were constrained by the presence of active agricultural farmland, overgrown tall grass and access to certain locations within the site. The investigation was limited to the areas of the site accessible at the time of the investigation. ADE notes various locations were inaccessible upon the request of the private owner(s) of the site .
Receptors of Concern	The potential receptors of concern are outlined in **Section 10.**

5.5 Step 5 – Develop a Decision Rule

The purpose of this step was to define the parameters of interest, specify action levels and combine the outputs of the previous DQO steps to develop a series of options if certain trigger events occur.

The key decision rules for this investigation were:

- Have the analytical data collected during this investigation met the DQI (see below)? If yes, then the data can be used to answer the decision rule below and the decision statements developed in Step 2. If no, then additional data/ assessment will be required.
- Are concentrations of CoPC's exceeding the investigation criteria defined in Section 5 (below)? If no, then the contamination does not pose an unacceptable risk. Where results exceed the adopted SAC, this may not necessarily indicate an unacceptable level of risk. Further risk assessment, and potentially additional investigations will be required to determine the potential for unacceptable impacts.

To assess the useability of the data for making decisions, the data has been assessed against a set of DQI, developed based on the following parameters:

- Precision: A quantitative measure of the variability (or reproducibility) of data
- Accuracy: A quantitative measure of the closeness of reported data to the "true" value
- Representativeness: The confidence (expressed qualitatively) that data are representative of each media
- Completeness: A measure of the amount of useable data from a data collection activity
- Comparability: The confidence (expressed qualitatively) that data may be equivalent for each sampling and analytical event

5.6 Step 6 – Specify Acceptable Limits on Decision Errors

There are two sources of error for input to decisions:

- Sampling errors, which occur when the samples collected are not representative of the conditions within the investigation area; and
- Measurement errors, which occur during sample collection, handling, preparation, analysis and data reduction.

The null hypothesis for this study is:

- Contaminant concentrations within the soil at the site are above the adopted investigation levels.

These errors may lead to the following decision errors:

- Deciding that the risks posed by soil within the site are acceptable when these risks are not acceptable. The consequence of this error may be unacceptable impacts to human health, or the receiving environment; or
- Deciding that the risks posed by soil within the site are unacceptable when the risks are acceptable. The consequence of this error is that management actions will be undertaken to reduce risks that are not necessary.

The acceptable limit on decision errors is a 5% probability of a false negative (i.e. assessing that the average concentrations of COPC are less than the adopted soil investigation levels when they are greater than the investigation levels).

Where data sets are sufficiently populated, the 95% upper confidence limit (UCL) of the arithmetic mean will be used to calculate this probability. The 95% UCLs are to be less than the investigation level and standard deviation of the sample population shall be less than 50% of the investigation level.

5.7 Step 7 – Optimise the Design for Obtaining Data

The organisation of the data collection and analysis design for optimising the generation of data to satisfy the DQOs and the objective of the investigation has been achieved via the following procedures outlined in Table 6.

Table 6. Summary of procedures to be undertaken to optimise the design for obtaining data.

Pre-approved work plan	The sampling plan for the investigation at the site has been developed to assess the concentrations of contaminants present in soils at the site through the implementation of the components outlined within NEPM (2013), AS 4482.1 (2005) and AS/NZS 5667.1 (1998).
Compliance with EPA guidelines	• Use of appropriate techniques for the sampling, storage and transportation of samples

	• Implementation of NATA certified laboratory using analytical procedures as outlined in NEPM (2013) • Use of a secondary laboratory for split samples which is NATA certified for the required analyses

6 Sampling Plan, Methodology, Field Investigations and Investigation Pattern

6.1 Pre-work Procedure

Prior to mobilisation to site, a job-specific Safety, Health & Environmental Work Method Statement (SH&EWMS) was developed, which was presented in a pre-start meeting prior to the commencement of works and signed on to by ADE staff.

6.2 Sampling Design Plan Rationale

The site investigation and soil sampling procedures were developed in accordance with the NSW EPA Sampling Design Guidelines (NSW EPA, 1995). Based on the low-risk nature of the proposed development, a reduced sampling density of the recommended sampling points as per the NSW EPA (1995) Sampling Design Guidelines was adopted, including twenty six sampling locations were completed across the site by Douglas Partners (2019).

6.3 Soil Sampling Methodology

The intrusive investigation involved excavation of 124 test pits using an excavator provided by the client for soil sampling.

The sampling was undertaken during the periods of 15 December 2021 to 14 January 2022 by multiple experienced environmental consultants representing ADE. The samples were collected from the fill and natural layer (between approximately 0.0 – 2.0 m bgl).

Samples were collected using dedicated nitrile gloves and placed in laboratory prepared, suitable analyte containers involving sterile glass jars lined with Teflon lids for chemical analysis, High-Density Polyethylene (HDPE) jars for PFAS analysis and 500mL zip lock bags for asbestos analysis.

The samples collected for chemical (excluding PFAS) were placed within a pre-chilled esky or cooler box with ice packs or equivalent to maintain samples at approximately 4^0C. PFAS samples were stored within a separate, designated esky and placed in a cool, dry place out of direct sunlight. The original Chain of Custody (CoC) form was enclosed in the Esky that was then sealed and dispatched to NATA accredited analytical laboratories.

Following the collection of each sample, a PID with a 10.6 eV lamp, pre-calibrated with isobutylene gas at 100 ppm was used to screen the headspace gases of the collected samples to assess for the presence of VOCs. The PID headspace screening was conducted using a resealable zip-lock plastic bag, and the soil sample was agitated as the PID reading was taken inside the zip-lock plastic bag (the bag was appropriately sealed when inserting the PID).

A total of 162 primary soil samples, 15 blind replicate samples, 10 split replicate samples were collected throughout the course of the investigation. All samples were submitted to a NATA accredited laboratory for analysis as per the recommended holding times on a standard (5-day) turnaround time (refer to Table 5 for the adopted sampling and analytical program).

6.4 Equipment Decontamination

Dedicated disposable materials (e.g. nitrile gloves) were changed between each sampling point. All disposable sampling equipment/materials were collected and removed before leaving the site. Documentation
A field observation log was kept by sampling personnel during all phases of soil sampling. Details recorded in the log included:

- Soil profile notes
- Sampling method
- Sample identification
- Sample description
- Sample point measurements

A comprehensive master sample register was maintained. As samples were received, they were given a unique sequential number from the sample register into which details from the labels were entered. Before packing and dispatch of samples for analysis, a CoC form was completed (refer to *Appendix V – Chain of Custody Documentation and Analytical Reports*). This form recorded details of the individual samples being dispatched and the type of analysis required for each sample.

6.5 Laboratory Submission

Samples were analysed by Sydney Laboratory Services (SLS) (primary laboratory), Eurofins (secondary laboratory), specifically:

- 162 primary soil samples collected by ADE throughout the period of 15 December 2021 to 14 January for analysis of Heavy Metals, TRHs, PAHs, BTEX, VOCs, TBT, OCPs, OPPs, PFAS (Short-suite), were submitted to SLS
- 34 primary soil samples collected by ADE throughout the period of 15 December 2021 to 14 January for analysis of asbestos (500 mL) were submitted to SLS
- 15 blind replicate samples (QAQC) collected by ADE throughout the period of 15 December 2021 to 14 January for analysis of Heavy Metals, TRHs, PAHs, BTEX, OCPs and OPPs were submitted to SLS
- 10 split replicate samples (QAQC) collected by ADE throughout the period of 15 December 2021 to 14 January for analysis of Heavy Metals, TRHs, PAHs, BTEX, OCPs, OPPs were submitted to Eurofins

Table 7 outlines the sampling and analytical program for analysis of soil and soil QAQC samples collected within the site during the investigation. Refer to *Appendix V – Analytical Reports* and *Chain of Custody* for the analytical methods by the selected laboratories.

Inclusive within **Table 7** are pervious soil samples collected by Douglas Partners (DP) 30 September 2019 within the immediate vicinity of identified potential sources of contamination across the site from a total of 26 surface sample locations and 6 test pit locations. An additional 12 test pits and 2 bore holes, excavated for geotechnical and salinity purposes, were utilised as inspection test pits.

Table 7. Sampling and Analytical Program for the Site Investigation (refer to Appendix I – Aerial Figure).

Test pit ID / Sample No.	Depth (m bgl)	Sample Type	Analysis							
			Standard Suite	8 HM, TRH, BTEX, PAHs	PFAS- short suite	VOCs / sVOCs and phenols	Salinity	NEPM	CEC / Clay Content	PID Field Screening
TP01FILL_0.0-0.3	0.0-0.3	Fill	x							x
TP02FILL_0.0-0.2	0.0-0.2	Fill	x							x
TP03FILL_0.0-0.3	0.0-0.3	Fill	x							x
TP03NAT_0.3-1.3	0.3-1.3	Natural		x						x
TP04FILL_0.0-0.2	0.0-0.2	Fill	x							x
TP05FILL_0.0-0.5	0.0-0.5	Fill	x							x
TP05NAT_0.5-1.8	0.5-1.8	Natural		x						x
TP06FILL_0.0-0.2	0.0-0.2	Fill	x							x
TP07FILL_0.0-0.2	0.0-0.2	Fill	x							x
TP07FILL_0.0-0.2_BR	0.0-0.2	Fill	x							x
TP08FILL_0.0-0.2	0.0-0.2	Fill	x							x
TP08NAT_0.2-1.3	0.2-1.3	Natural		x		x				x

Table 7 continued…

Test pit ID / Sample No.	Depth (m bgl)	Sample Type	Analysis							
			Standard Suite	8 HM, TRH, BTEX, PAHs	PFAS- short suite	VOCs / sVOCs and phenols	Salinity	NEPM	CEC / Clay Content	PID Field Screening
TP08NAT_1.3-1.6	**1.3-1.6**	Natural		x						x
TP09FILL_0.0-0.3	**0.0-0.3**	Fill	x							x
TP09NAT_0.3-0.7	**0.3-0.7**	Natural		x						x
TP09NAT_0.7-1.4	**0.7-1.4**	Natural		x						x
TP10FILL_0.0-0.2	**0.0-0.2**	Fill	x							x
TP10FILL_0.2-0.7	**0.2-0.7**	Fill	x							x
TP10NAT_0.7-1.0	**0.7-1.0**	Natural		x						x
TP11FILL_0.0-0.3	**0.0-0.3**	Fill	x							x
TP12FILL_0.0-0.3	**0.0-0.3**	Fill	x							x
TP13FILL_0.0-0.2	**0.0-0.2**	Fill	x							x
TP14FILL_0.0-0.2	**0.0-0.2**	Fill	x							x
TP14NAT_1.3	**1.3**	Natural		x		x				x
TP15FILL_0.0-0.3	**0.0-0.3**	Fill	x							x
TP16FILL_0.0-0.45	**0.0-0.45**	Fill	x							x

Table 7 continued…

Test pit ID / Sample No.	Depth (m bgl)	Sample Type	Analysis							
			Standard Suite	8 HM, TRH, BTEX, PAHs	PFAS- short suite	VOCs / sVOCs and phenols	Salinity	NEPM	CEC / Clay Content	PID Field Screening
TP16NAT_0.45-1.0	**0.45-1.0**	Natural		x						x
TP17FILL_0.0-0.3	**0.0-0.3**	Fill	x							x
TP18FILL_0.0-0.3	**0.0-0.3**	Fill	x							x
TP19FILL_0.0-0.3	**0.0-0.3**	Fill	x							x
TP19FILL_0.0-0.3_BR	**0.0-0.3_BR**	Fill	x							x
TP20FILL_0.0-0.3	**0.0-0.3**	Fill	x							x
TP21FILL_0.0-0.2	**0.0-0.2**	Fill	x							x
TP22FILL_0.0-0.2	**0.0-0.2**	Fill	x							x
TP23-fill-0.1	**0.1**	Fill	x							x
TP23-fill-0.1	**0.1**	Fill	x							x
TP23-natural-0.4	**0.4**	Natural		x						x
TP24-fill-0.1	**0.1**	Fill	x		x	x	x	x		x
TP24-natural-0.4	**0.4**	Natural								x

Table 7 continued…

Test pit ID / Sample No.	Depth (m bgl)	Sample Type	Analysis							
			Standard Suite	8 HM, TRH, BTEX, PAHs	PFAS- short suite	VOCs / sVOCs and phenols	Salinity	NEPM	CEC / Clay Content	PID Field Screening
TP25-fill-0.1	**0.1**	Fill	x							x
TP25-fill-0.1	**0.1**	Fill	x							x
TP26-fill-0.1	**0.1**	Fill	x							x
TP26-natural-0.4	**0.4**	Natural		x						x
TP27-fill-0.1	**0.1**	Fill	x					x		x
TP27-fill-0.1	**0.1**	Fill	x							x
TP27-natural-0.4	**0.4**	Natural	x						x	x
TP28FILL_0.0-0.3	**0.0-0.3**	Fill	x							x
TP29FILL_0.0-0.3	**0.0-0.3**	Fill	x							x
TP30FILL_0.0-0.2	**0.0-0.2**	Fill	x							x
TP31FILL_0.0-0.3	**0.0-0.3**	Fill	x		x					x
TP32FILL_0.0-0.3	**0.0-0.3**	Fill	x							x
TP33FILL_0.0-0.2	**0-0.2**	Fill	x							x
TP34FILL_0.0-0.3	**0.0-0.3**	Fill	x							x

Table 7 continued…

Test pit ID / Sample No.	Depth (m bgl)	Sample Type	Analysis							
			Standard Suite	8 HM, TRH, BTEX, PAHs	PFAS- short suite	VOCs / sVOCs and phenols	Salinity	NEPM	CEC / Clay Content	PID Field Screening
TP34NAT_0.3-1.0	**0.3-1.0**	Natural		x		x				x
TP35-Fill-0.1	**0.1**	Fill	X							x
TP36-fill-0.2	**0.2**	Fill	x							x
TP36-natural-0.3	**0.3**	Natural		x						x
TP36-BR2-0.2	**0.2**	Fill	x							x
TP37-natural-0.4	**0.4**	Natural		x						x
TP37-fill-0.3	**0.3**	Fill	x	X	x	x	x	x		x
TP38-fill-0.3	**0.3**	Fill	x							x
TP39-fill-0.5	**0.5**	Fill	x				x			x
TP39-fill-0.5	**0.5**	Fill	x							x
TP39-BR1-0.5	**0.5**	Fill	x							x
TP40-fill-0.5	**0.5**	Fill	X							x
TP41-fill-0.5	**0.5**	Fill	x					x		x
TP41-fill-0.5	**0.5**	Fill	x							x
TP42-fill-0.5	**0.5**	Fill	x							x
TP43-fill-0.2	**0.2**	Fill	x							x
TP43-fill-0.2	**0.2**	Fill	x							x
TP43-natural-0.3	**0.3**	Natural	x							x

Table 7 continued…

Test pit ID / Sample No.	Depth (m bgl)	Sample Type	Analysis							
			Standard Suite	8 HM, TRH, BTEX, PAHs	PFAS- short suite	VOCs / sVOCs and phenols	Salinity	NEPM	CEC / Clay Content	PID Field Screening
TP44-fill-0.3	**0.3**	Fill	x							x
TP44-natural-0.4	**0.4**	Natural		x						x
TP45-fill-0.3	**0.3**	Fill	x							x
TP46-fill-0.3	**0.3**	Fill	x							x
TP46-natural-0.4	**0.4**	Natural		x						x
TP47-fill-0.1	**0.1**	Natural	x		x	x	x	x		x
21.1994.TP47-BR	**0.1**	Fill	x							x
TP47-natural-0.3	**0.3**	Natural		x						x
TP48-fill-0.1	**0.1**	Fill	x							x
TP48-natural-0.3	**0.3**	Natural		x						x
TP49-fill-0.1	**0.1**	Fill	x							x
TP49-fill-0.1	**0.1**	Fill	x							x
TP50-fill-0.2	**0.2**	Fill	x					x		x
TP50-fill-0.2	**0.2**	Fill	x							x
TP50-natural-0.4	**0.4**	Natural		x						x
TP51-fill-0.9	**0.9**	Fill	x							x

Table 7 continued…

Test pit ID / Sample No.	Depth (m bgl)	Sample Type	Analysis							
			Standard Suite	8 HM, TRH, BTEX, PAHs	PFAS- short suite	VOCs / sVOCs and phenols	Salinity	NEPM	CEC / Clay Content	PID Field Screening
TP51-natural-1.0	**1.0**	Fill	x		x	x		x		x
TP52-fill-0.3	**0.3**	Fill	x							x
TP52-fill-0.3	**0.3**	Fill	x							x
TP52-natural-0.4	**0.4**	Natural	x							x
TP53-fill-0.1	**0.1**	Fill	x							x
TP54-fill-0.1	**0.1**	Fill	x							x
TP54-fill-0.1	**0.1**	Fill	x							x
TP54-fill-0.2	**0.2**	Fill	x							x
TP54-BR2-0.1	**0.1**	Fill	x							x
TP55-fill-0.1	**0.1**	Fill	x							x
TP56-fill-0.4	**0.4**	Fill	x							x
TP56-fill-0.4	**0.4**	Fill	x					x		x
TP56-natural-0.5	**0.5**	Natural	x							x
TP57-fill-0.1	**0.1**	Fill	x							x
TP57-natural-0.2	**0.2**	Natural	X							x
TP58-fill-0.1	**0.1**	Fill	x							x
TP58-fill-0.1	**1.0**	Fill	x							x

Table 7 continued…

Test pit ID / Sample No.	Depth (m bgl)	Sample Type	Analysis							
			Standard Suite	8 HM, TRH, BTEX, PAHs	PFAS- short suite	VOCs / sVOCs and phenols	Salinity	NEPM	CEC / Clay Content	PID Field Screening
TP59-fill-0.1	**0.1**	Fill	x		x	x	x	x		x
TP59-natural-0.2	**0.2**	Natural		x						x
21.1994.BR1	**0.1**	Fill	x							x
TP60-fill-0.1	**0.1**	Fill	x							x
TP60-fill-0.1	**0.1**	Fill	x							x
TP61-fill-0.2	**0.2**	Fill	X							x
TP61-natural-0.3	**0.3**	Natural		x						x
TP62-fill-0.2	**0.2**	Fill	x							x
TP62-fill-0.2	**0.2**	Fill	x							x
TP62-natural-0.3	**0.3**	Natural		x						x
TP63-fill-0.1	**0.1**	Fill	x							x
TP64-fill-0.2	**0.2**	Fill	x							x
TP64-fill-0.2	**0.2**	Fill								x
TP64-natural-0.3	**0.3**	Natural		x						x
TP65-fill-0.1	**0.1**	Fill	x		x	x	x	x		x
TP65-natural-0.25	**0.25**	Natural		x						x

Table 7 continued…

Test pit ID / Sample No.	Depth (m bgl)	Sample Type	Analysis							
			Standard Suite	8 HM, TRH, BTEX, PAHs	PFAS- short suite	VOCs / sVOCs and phenols	Salinity	NEPM	CEC / Clay Content	PID Field Screening
TP66-fill-0.1	**0.1**	Fill	x							x
TP66-fill-0.1	**0.1**	Fill	x							x
TP67-fill-0.1	**0.1**	Fill	x							x
TP67-natural-0.2	**0.2**	Natural		x						x
TP68-fill-0.1	**0.1**	Fill	x					x		x
TP68-fill-0.1	**0.1**	Fill	x							x
TP68-natural-0.3	**0.3**	Natural		x						x
TP69-fill-0.1	**0.1**	Fill	x							x
21.1994.BR2	**0.1**	Fill	x							x
TP70-fill-0.2	**0.2**	Fill	x							x
TP70-fill-0.2	**0.2**	Fill	x							x
TP70-natural-0.4	**0.4**	Natural		x						x
TP71-fill-0.1	**0.1**	Fill	x		x	x	x	x		x
TP71-natural-0.3	**0.3**	Natural		x						x
TP72-fill-0.2	**0.2**	Fill	x							x
TP72-fill-0.2	**0.2**	Fill	x							x
TP73-fill-0.1	**0.1**	Fill	x							x

Table 7 continued…

Test pit ID / Sample No.	Depth (m bgl)	Sample Type	Analysis							
			Standard Suite	8 HM, TRH, BTEX, PAHs	PFAS- short suite	VOCs / sVOCs and phenols	Salinity	NEPM	CEC / Clay Content	PID Field Screening
TP73-natural-0.2	**0.2**	Natural		x						x
TP74-fill-0.1	**0.1**	Fill	x							x
TP74-fill-0.1	**0.1**	Fill	x							x
TP74-natural-0.1	**0.1**	Natural	x							x
TP75-fill-0.1	**0.1**	Fill	x							x
TP75-natural-0.3	**0.3**	Natural		x						x
TP76-fill-0.3	**0.3**	Fill	x							x
TP76-fill-0.3	**0.3**	Fill	x						x	x
TP76-BR1	**0.1**	Fill	x							x
TP77-fill-0.5	**0.5**	Fill	x	x	x	x	x	x		x
TP77-natural-0.6	**0.6**	Natural		x						x
TP78-fill-0.3	**0.3**	Fill	x							x
TP78-fill-0.3	**0.3**	Fill	x							x
TP79-fill-0.2	**0.2**	Fill	x							x
TP79-natural-0.3	**0.3**	Natural		x						x
TP80-fill-0.2	**0.2**	Fill	x					x		x
TP80-fill-0.2	**0.2**	Fill	x							x

Table 7 continued…

Test pit ID / Sample No.	Depth (m bgl)	Sample Type	Analysis							
			Standard Suite	8 HM, TRH, BTEX, PAHs	PFAS- short suite	VOCs / sVOCs and phenols	Salinity	NEPM	CEC / Clay Content	PID Field Screening
TP80-natural-0.3	**0.3**	Natural		x						x
TP81-fill-0.2	**0.2**	Fill	x							x
TP82-fill-0.2	**0.2**	Fill	x							x
TP82-fill-0.2	**0.2**	Fill	x							x
TP82-fill-0.3	**0.3**	Fill		x						x
TP83-fill-0.3	**0.3**	Fill	x	x	x	x	x	x		x
TP83-natural-0.4	**0.4**	Natural		x						x
TP84-fill-0.2	**0.2**	Fill	x							x
TP84-fill-0.2	**0.2**	Fill	x							x
TP85-fill-0.3	**0.3**	Fill	x							x
TP85-natural-0.4	**0.4**	Natural		x						x
TP86-fill-0.3	**0.3**	Fill	x					x		x
TP86-fill-0.3	**0.3**	Fill	x							x
TP86-natural-0.4	**0.4**	Natural		x						x
TP86-BR2-0.3	**0.3**	Fill	x							x
TP87-fill-0.3	**0.3**	Fill	x							x
88 (yet to be sampled)										

Table 7 continued…

Test pit ID / Sample No.	Depth (m bgl)	Sample Type	Analysis							
			Standard Suite	8 HM, TRH, BTEX, PAHs	PFAS- short suite	VOCs / sVOCs and phenols	Salinity	NEPM	CEC / Clay Content	PID Field Screening
89 (yet to be sampled)	-									
90 (yet to be sampled)	-									
91 (yet to be sampled)	-									
TP92-fill-0.4	**0.4**	Fill	x	x	x	x	x	x		x
TP92-fill-0.4	**0.4**	Fill	x							x
TP92-natural-0.5	**0.5**	Natural		x						x
TP93FILL_0.0-0.4	**0.0-0.4**	Fill	x							x
TP93NAT_0.8-1.1	**0.8-1.1**	Natural		x						x
TP94FILL_0.0-0.2	**0.0-0.2**	Fill			x					x
TP95FILL_0.0-0.1	**0.0-0.1**	Fill	x							x
TP95NAT_0.1-0.5	**0.1-0.5**	Natural		x		x				x
TP96FILL_0.0-0.3	**0.0-0.3**	Fill	x							x
TP96FILL_0.0-0.3_BR	**0.0-0.3**	Fill	x							x
TP97-fill	**0.1**	Fill	x							x
TP97-nat	**0.3**	Natural	x							x

Table 7 continued…

Test pit ID / Sample No.	Depth (m bgl)	Sample Type	Analysis							
			Standard Suite	8 HM, TRH, BTEX, PAHs	PFAS- short suite	VOCs / sVOCs and phenols	Salinity	NEPM	CEC / Clay Content	PID Field Screening
TP97-BR	**0.1**	Fill	x							x
TP98-fill	**0.1**	Natural	x					x		x
TP98-nat	**0.3**	Natural	x							x
TP99-fill	**0.25**	Fill	x							x
TP100-fill	**0.1**	Fill	x							x
TP100-fill	**0.1**	Fill	x							x
TP100-nat	**0.2**	Natural	x							x
TP101FILL_0.0-0.4	**0.0-0.4**	Fill	x							x
TP102FILL_0.0-1.1	**0.0-1.1**	Fill	x							x
TP102NAT_1.1-1.9	**1.1-1.9**	Natural		x						x
TP103FILL_0.3	**0.3**	Fill	x							x

Table 7 continued…

Test pit ID / Sample No.	Depth (m bgl)	Sample Type	Analysis							
			Standard Suite	8 HM, TRH, BTEX, PAHs	PFAS- short suite	VOCs / sVOCs and phenols	Salinity	NEPM	CEC / Clay Content	PID Field Screening
TP104FILL_0.0-0.3	**0.0-0.3**	Fill	x							x
TP104NAT_0.3-0.8	**0.3-0.8**	Natural		x						x
TP105-fill	**0.0-0.3**	Fill	x							x
TP106-fill	**0.0-0.3**	Fill	x							x
TP106-fill	**0.0-0.3**	Fill	x							x
TP106-nat	**0.3-0.5**	Natural	x							x
TP107-fill	**0.1-0.2**	Fill	x		x	x		x		x
TP107-nat	**0.2-0.5**	Fill	x							x
TP108-fill	**0.1-0.2**	Fill	x							x
TP108-fill	**0.1-0.2**	Fill	x							x
109 (yet to be sampled)	**-**	Fill								
TP110-fill	**0.05**	Fill	x					x		x
TP110-nat	**0.1**	Natural	x							x
TP111-fill	**0.1**	Fill	x							x
TP112-fill	**0.1**	Fill	x							x
TP112-fill	**0.1**	Fill	x							x

Table 7 continued…

Test pit ID / Sample No.	Depth (m bgl)	Sample Type	Analysis							
			Standard Suite	8 HM, TRH, BTEX, PAHs	PFAS- short suite	VOCs / sVOCs and phenols	Salinity	NEPM	CEC / Clay Content	PID Field Screening
TP113-fill	**0.1**	Fill	x		x	x		x		x
TP113-nat	**0.3**	Natural	x							x
TP114-fill	**0.1**	Fill	x							x
TP114-fill	**0.1**	Fill	x							x
TP114-BR2	**0.1**	Fill	x							x
TP115-fill	**0.1**	Fill	x							x
TP115-nat	**0.3**	Natural	x							x
TP116-fill	**0.1**	Fill	x							x
TP116-fill	**0.1**	Fill	x					x		x
TP116-nat	**0.3**	Natural	x							x
TP117-fill	**0.1**	Fill	x							x
TP117-BR2	**0.1**	Fill	x							x
TP118-fill	**0.1**	Fill	x							x
TP118-nat	**0.2**	Natural	x							x
TP119-fill	**0.1**	Fill	x		x	x		x		x
TP119-nat	**0.3**	Natural								x
TP119-BR	**0.1**	Fill	x							x
TP120-fill	**0.1**	Fill	x							x

Table 7 continued…

Test pit ID / Sample No.	Depth (m bgl)	Sample Type	Analysis							
			Standard Suite	8 HM, TRH, BTEX, PAHs	PFAS- short suite	VOCs / sVOCs and phenols	Salinity	NEPM	CEC / Clay Content	PID Field Screening
121 (yet to be sampled)	-	-								
TP122-fill	0.1	Fill	x					x		x
TP122-nat	0.3	Natural	x							x
TP123-fill	0.1	Fill	x							x
TP124-fill	0.1	Fill	x		x	x		x		x
TP124-nat	0.3	Natural	x							x
TP125-fill	0.1	Fill	x							x
TP126-nat	0.2	Natural	x							x
TP126-fill	0.1	Fill	x							x
TP127-nat	0.2	Natural	x							x
TP127-fill	0.1	Fill	x					x		x
TP128-fill	0.1	Fill	x							x
TP129-nat	0.3	Natural	x							x
TP129-fill	0.1	Fill	x		x	x		x		x
TP130-fill	0.1	Fill	x							x

Table 7a. Sampling conducted by DP 30.07.2019

Test pit ID / Sample No.	Depth (m bgl)	Sample Type	Analysis								
			Metals	PAH	TRH & BTEX	OCP	OPP & PCB	Phenols	PH & CEC	Asbestos 50g	Asbestos Bulk
DP-SS1	0.1	Fill	X	X	X	X				X	
DP-SS2	0.1	Fill	X	X	X					X	
DP-SS3	0.1	Fill	X	X	X	X	X	X		X	
DP-SS4	0.1	Fill	X	X	X						
DP-SS5	0.1	Fill	X	X	X	X				X	
DP-SS6	0.1	Fill	X	X	X	X				X	
DP-SS7	0.1	Fill	X	X	X	X	X			X	

DP-SS8	0.1	Fill	X	X	X	X					
DP-SS9	0.1	Fill				X					
DP-SS10	0.1	Fill	X	X	X	X				X	
DP-SS11	0.1	Fill				X			X		
DP-SS12	0.1	Fill				X					
DP-SS13	0.1	Fill	X	X	X	X	X	X		X	
DP-SS14	0.1	Fill	X	X						X	
DP-SS15	0.1	Fill	X	X	X	X	X			X	
DP-SS16	0.1	Fill				X	X		X		
DP-SS17	0.1	Fill		X							
DP-SS18	0.1	Fill		X	X						
DP-SS19	0.1	Fill		X							
DP-SS20	0.1	Fill	X	X	X	X	X	X		X	
DP-SS21	0.1	Fill	X	X	X	X	X			X	
DP-SS22	0.1	Fill	X	X	X	X				X	
DP-SS23	0.1	Fill	X	X	X	X				X	
DP-SS24	0.1	Fill	X			X				X	
MAT-1											X
MAT-2											
MAT-3											X
MAT-4											X
BD1											
BD2				X							
BD3											

Notes to Table 7

1 – Full suite of analysis includes BTEX, Heavy Metals, OCPs / OPPs, PAHs, PCB, TRHs, VOCs, PFAS and 10L asbestos screening

2 – 500 mL asbestos sample for asbestos fines/fibrous asbestos (AF/FA), as per NEPM (2013)

3 – Replicate suite of analysis includes Heavy Metals, OCPs / OPPs, PAHs, TRH and PCB

7 Assessment Criteria

7.1 Soil Assessment Criteria

The assessment criteria specified in the following publications were employed for this DSI:

- NEPC, National Environmental Protection Measure [NEPM] Schedule B1 (NEPC, 2013)
- NSW EPA, Waste Classification Guidelines. Part 1: Classifying Waste (NSW EPA, 2014)
- HEPA, PFAS National Environmental Management Plan (NEMP) v2.0 (HEPA, 2020)

7.1.1 Health Investigation Level (HILs)

The NEPM (2013) guidelines stipulate 4 generic land-use settings for assessment used in the first stage (Tier 1 or 'screening') of potential risks to human health for a broad range of metals and organic substances. The HIL's are applicable for assessing human health risk via all relevant pathways of exposure. The 4 HIL categories are used to evaluate human health risk via all relevant pathways of exposure for the following broad land use categories:

- HIL-A - Residential with garden/accessible soil (home grown produce <10% fruit and vegetable intake, no poultry, also includes children's day care centres, preschools and primary schools
- HIL-B - Residential with minimal opportunities for soil access includes dwellings with fully and permanently paved yard space such as high-rise buildings and flats
- HIL-C - Public open space such as parks, playgrounds, playing fields (e.g. ovals), secondary schools and footpaths. It does not include undeveloped public open space (such as urban bushland and reserves), which should be subject to a Site-specific assessment where appropriate and
- HIL-D - Commercial/industrial such as shops, offices, factories and industrial sites.

Based on available information, which includes future land use as an industrial estate, commercial/industrial (HIL-D) criteria has been adopted for the purposes of this investigation, refer to Table 8 below.

Table 8. Summary of HILs-D in Soil, adapted from Table 1A(1), Schedule B1 of NEPM (2013).

Analyte	HILs D - Commercial/Industrial (mg/kg)
Arsenic (total)	3,000
Cadmium	900
Chromium (total)	3,600
Copper	240,000
Lead	1,500
Mercury (inorganic)	730
Nickel	6,000
Zinc	400,000
Carcinogenic PAHs (as BaP TEQ[1])	40
Total PAHs	4,000
Total PCBs	7
DDT+DDE+DDD	3,600
Aldrin and Dieldrin	45
Chlordane	530
Endosulfan	2,000
Endrin	100
Heptachlor	50
Hexachlorobenzene	80
Methoxychlor	2,500

Analyte	HILs D - Commercial/Industrial (mg/kg)
Chlorpyrifos	2,000

7.1.2 Health Screening Level (HSLs)

HSLs have been developed for selected petroleum compounds and fractions and are applicable to assessing human health risk via the inhalation and direct contact pathways. The HSLs depend on specific soil physicochemical properties, land use scenarios, and the characteristics of building structures.

Health screening levels for petroleum hydrocarbon compounds are outlined in section 2.4 of Schedule B1 of NEPM (2013), and include tier 1 screening criteria for BTEX, naphthalene, TRH fractions C_6-C_{10} and C_{10}-C_{16} for vapour intrusion. As there is a potential pathway of exposure in relation to direct contact and ingestion for both construction workers and future users of the site, the HSL-D levels for direct human contact have also been adopted from CRC CARE (2011) and are further outlined in table 9 below**.**

Table 9. Site Assessment Criteria – HSLs for Soil Contamination.

Analyte	Health Screening Levels (HSLs)	
	Soil HSLs for Vapour Intrusion - HSL-D (mg/kg) (0m to <1m)	Soil HSLs for Direct Contact - HSL-D (mg/kg)[1]
Benzene	3	430
Toluene	-	99,000
Ethylbenzene	-	27,000
Xylene	230	81,000
Naphthalene	-	11,000
TRH: C6 – C10(F1)[3]	260	26,000
TRH: C10 – C16 (F2)	-	20,000
TRH: C16 – C34(F3)	-	27,000
TRH: C34 – C40(F4)	-	38,000

Notes to Table 9

1- Human exposure settings based on intended land use have been established for HILs/HSLs (see Taylor and Langley 1998). HIL-D – Commercial/Industrial such as shops, offices, factories and industrial sites, was the land use setting adopted for this investigation;

2- Carcinogenic PAHs: HIL is based on the 8 carcinogenic PAHs and their Toxic Equivalency Factor (TEFs) (potency relative to B[a]P). The B[a]P TEQ (Toxic Equivalency Quantity) is calculated by multiplying the concentration of each carcinogenic PAH in the sample by its B(a)P TEF.

3- To obtain F1, subtract the sum of BTEX from the C_6-C_{10} fraction.

7.1.3 Ecological Investigation Levels (EILs) and Ecological Screening Levels (ESLs)

The EILs assigned by the NEPM (2013) Schedule B5a - *Guideline on Ecological Risk Assessment* presents the methodology for deriving terrestrial EILs using both fresh and aged (i.e. > 2 years old) contamination for soil with the following land use types:

- Areas of ecological significance
- Urban residential/public open space, and
- **Commercial/industrial**.

The EILs are calculated by summing the added contaminant limit (ACL) and the ambient background concentration (ABC) of contaminants to derive the site-specific soil quality guideline (SQG). This process considers the pH, cation exchange capacity (CEC), total iron, total organic carbon and clay content in soil that can affect concentration toxicity data. The methodology was developed to protect soil processes, soil biota (flora and fauna) and terrestrial invertebrates and vertebrates.

For the determination of the ABCs, ADE utilised the method based on 25% of urban metal levels in Olszowy et al. (1995) for old and low traffic areas for NSW, as assigned by the NEPM (2013) – Schedule B1. CEC and clay content tests have not been conducted for developing site-specific EILs/ESLs.

In the absence of physiochemical properties data, ADE adopted the conservative values for assessing selected contaminants as outlined in NEPM 2013. A review of the NSW OEH 'eSPADE' was conducted for estimated value of soil CEC and clay content within the site, however the source location was not identified as having the relevant data. As such, conservative values were adopted for setting up the preliminary EILs / ESLs as outlined in **Table 10**. Values presented for Arsenic, Naphthalene and DDT are generic EILs based on total concentrations and aged (>2 years) / old contaminants.

Table 10. Derivation of site specific EILs as per NEPM (2013), with concentrations in mg/kg.

Contaminant	ABC[1]	ACL[2]	EIL
Arsenic (As)	-	-	160
Dichlorodiphenyltrichloroethane (DDT)	-	-	640
Naphthalene	-	-	370
Lead (Pb)	100	1800	1,900
Copper (Cu)	20	280	300
Nickel (Ni)	5	290	295
Chromium (Cr III)	8	660	668
Zinc (Zn)	75	130	205

Notes to Table 10

1 - ABC values derived from (Olszowy et al., 1995); and

2 - Since the absence of analytical data for EC and clay content, conservative values are adopted for assessing selected contaminants.

ESLs are presented based on a review of Canadian guidance for petroleum hydrocarbons in soil and application of the Australian methodology (Schedule B5b) to derive Tier 1 ESLs for BTEX, B(a)P and F1 and F2. The Canadians have adopted risk-based TPH standards for human health and ecological aspects for various land uses, refer to the technical supplement Canada-wide standard for petroleum hydrocarbons (PHC) in soil (CCME, 2008) directed by the Canadian Council of the Ministers of the Environment (CCME). The standards established soil values (refer to Table 1B (6) of the NEPM 2013) including ecologically based criteria for sites affected by TPH contamination for coarse-grained and fine-grained soil types.

Table 11. ESLs for TPH Fractions F1 – F4, BTEX and Benzo(a)pyrene (B[a]P) in Soil as per NEPM 2013.

Contaminant	Soil Texture	ESLs (mg/kg dry soil)
F1 TRH C_6-C_{10}	Coarse	215*
F2 TRH >C_{10}-C_{16}	Coarse	170*
F3 TRH >C_{16}-C_{34}	Coarse	1,700
F4 TRH >C_{34}-C_{40}	Coarse	3,300
Benzene	Coarse	75
Toluene	Coarse	135
Ethylbenzene	Coarse	165
Xylene	Coarse	180
B(a)P	Coarse	1.4

Notes to Table 11

1 – ESLs are of low reliability except where indicated by * which indicated that the ELS is of moderate reliability.

2 – To obtain F1, subtract the sum of BTEX from the C_6-C_{10} fraction.

7.1.4 Asbestos

ADE collected 34, 500 mL soil samples for analysis of asbestos fines (AF) and fibrous asbestos (FA). Collection of asbestos samples was restricted to the shallow surface/ fill layer at each sampling location. No soil samples were collected for asbestos analysis from the natural layer.

For soils to be considered suitable to remain on site they must comply with the HSL-D criteria outlined within the NEPM (NEPC, 2013). Refer to Table 12.

Table 12. HSLs for Asbestos in Soil.

Asbestos Form	Health Screening Level (w/w)			
	HSL A	HSL B	HSL C	HSL D
Non-friable Asbestos	0.01 %	0.04 %	0.02 %	0.05 %
FA and AF	**0.001%**			
All forms of asbestos	**No visible asbestos on the soil surface**			

7.1.5 Management Limits

Petroleum hydrocarbon management limits are a set of assessment criteria outlined in Section 2.9, M=management limits for petroleum hydrocarbon compounds, in Schedule B1, of NEPM (2013) applicable to petroleum hydrocarbon compounds which aim to avoid or minimise the potential effects of:

- Formation of observable light non-aqueous phase liquids (LNAPL)
- Fire and explosive hazards
- Effects on buried infrastructure e.g. penetration of, or damage to, in-ground services by hydrocarbons

The Management Limits provide Tier 1 screening levels following evaluation of human health and ecological risks and risks to groundwater resources. They are considered relevant for operating sites where significant sub-surface leakage of petroleum compounds may have occurred and decommissioned industrial and commercial sites. A summary of the adopted Management Limits for this site is provided in **Table 13**.

Table 13. Summary of Site Management Limits.

Chemical	Soil Type	Commercial/Industrial (mg/kg)
F1: TRH C6 – C10	Fine	700
F2: TRH C10 – C16	Fine	1 000
F3: TRH C16 – C34	Fine	3 500
F4: TRH C34 – C40	Fine	10 000

7.1.6 PFAS Assessment Criteria

To assess the potential risk of PFAS related contamination to human health, ADE has adopted the Health Investigation Levels assigned for commercial/industrial sites as referenced within the HEPA *PFAS National Environmental Management Plan Version 2.0 (2020)*. A summary of the PFAS related assessment criteria for the site is provided within Table 14.

Table 14. Site Assessment Criteria - PFAS HILs for Soil Contamination.

Analyte	Commercial/Industrial (mg/kg)
Sum of PFOS & PFAS	20
PFOA	50
PFOS	-

Notes to Table 14

1- Human exposure settings based on land use have been established for HILs/HSLs (see Taylor and Langley 1998). HIL-B – Residential with no use for home-grown produce and poultry and includes dwellings with fully and permanent paved yard space such as high rise-buildings and flats.

7.2 Aesthetics

As outlined in Section 3.6, in Schedule B1, aesthetic considerations of NEPM (2013) aesthetic quality of accessible soils should be considered even if analytical testing demonstrates that concentrations of CoPCs are within the SAC. It should be noted that there are no quantifiable guidelines in determining if soils are appropriately aesthetic. As stated in Section 3.6.3, the Assessment process for aesthetic issues, in Schedule B1, of NEPM (2013), professional judgement concerning the quantity, type and distribution of foreign materials and/or odours in relation to the specific land use should be employed.

The following examples would trigger further aesthetic assessment:

- Hydrocarbon sheen on surface water
- Anthropogenic soil staining
- Odorous soils (i.e. hydrocarbon or hydrogen sulphide odours)

7.3 Statistical Treatment

Analytical results from the soil sampling program are statistically analysed to determine their applicability to the assessment and recommendation of remedial actions in the event of Site assessment criteria exceedances.

A contaminant concentration in soil will be deemed a non-exceedance if:

- The maximum concentration of all samples meets the specified acceptance criteria; or
- The 95% Upper Control Limit (UCL) is below the acceptance criteria with the following criteria:
- The standard deviation of the results should be less than 50% of the relevant investigation or screening level; and
    - No individual exceedance should exceed 250% of the relevant investigation or screening level.

If the 95% UCL of the arithmetic mean of a contaminant concentration is above the acceptance criteria, then the soil will be classified as contaminated and will require further assessment, remediation, removal, or management.

If the 95% UCL of the arithmetic average concentrations is below the acceptance criteria, and no concentrations are at a hotspot level, slight elevations above the acceptance criteria may be considered to pose insignificant human health or environmental risk. The location will hence be considered a non-exceedance requiring no further assessment, remediation, removal, or management. The statistical analysis for the assessment of ACM is not considered appropriate.

8 Data Quality Assessment

To carry out the assessment of the data acquired during the investigation, the US EPA Guidelines including, but not limited to, the *'Guidance on Assessing Quality Systems'* (2003) and *'Guidance on Systematic Planning Using the Data Quality Objectives Process'* (2006) were used.

The guidelines provide a general strategy for assessing data quality criteria and performance specifications for decision making. The following is the output from most of the steps of the Data Quality Assessment (DQA) Process provided in the guidelines. Quality control reports from the laboratories for sample analyses were reviewed. The review included an assessment of blank, duplicate, control, and spiked samples. The review of the QA/QC program was conducted in accordance with NSW EPA recommendations.

8.1 Data Review

Quality control reports from the laboratories subcontracted for sample analyses were reviewed. Laboratory blank samples, duplicate samples, control samples, spiked samples and method blanks were evaluated (refer to *Appendix VI – QA/QC Output*).

This review was conducted in accordance with the items recommended by the NSW EPA for inclusion in the consultants' reports. Some additional recommendations from the US EPA methodology, as referred to by AS 4482.1, were also followed.

Following the QA/QC assessment, the validity of the results is determined based on the assessment criteria adopted, with the results expressed as either valid or invalid data (acceptable or unacceptable). The laboratory QA/QC sections can be found in their corresponding internal laboratory QA/QC reports (refer to *Appendix V – Chain of Custody Documentation and Laboratory Analytical Reports).*

8.1.1 COC

Australian Standard AS 4482.1 defines the Chain-Of-Custody (COC) documentation as the link in the transfer of samples between the time of collection and arrival at the laboratory.

The COC utilised by ADE included the items recommended by the Standard:

- Person transferred the samples;
- Person who received the samples
- Date the samples were collected
- Date the samples were received at the laboratory
- Contact name and details for the client.

Copies of the COCs completed during the course of this investigation are provided in *Appendix V – Chain of Custody Documentation and Laboratory Analytical Reports.*

8.1.2 Record of Holding Times

The objective is to ascertain the validity of the analytical results based on meeting the holding time for the samples from the time of collection to the time of analysis.

All samples collected over the course of the investigation were submitted within one day of the initial sampling event. As such, the holding times of all samples to the final submission to the laboratories used (SLS and Eurofins) meet the recommended holding time criteria, with all samples analysed within 7 days from the time of collection with the exception of test pit 35 (refer to *Appendix VI – QA/QC Output*).

8.1.3 Field Equipment Calibration

Field equipment requiring calibration included the use of a pre-calibrated PID with a 10.6 eV lamp. The item is calibrated by a qualified external technician every 12 months or as prescribed by the technician, which is followed by an onsite calibration (bump test) using isobutylene gas at 100 ppm before each sampling event and/or per every ten (10) consecutive readings by a trained environmental consultant.

8.1.4 Analytical Methods Used

Analysis was undertaken by NATA accredited laboratories using US EPA approved methodologies. Refer to *Appendix V – Chain of Custody Documentation and Laboratory Analytical Reports* for the analytical methods used by the laboratories, which in all cases were deemed appropriate for the required analyses.

8.1.5 Laboratory Accreditation for Analytical Methods Used

Analysis was undertaken in NATA accredited laboratories using US EPA approved methodology. Refer to *Appendix V – Chain of Custody Documentation and Laboratory Analytical Reports,* for the details of laboratory accreditations for analytical methods used. The laboratory accreditation of SLS and Eurofins were deemed suitable for the required analyses.

8.1.6 Detection Limits / Practical Quantification Limits

The smallest amount of a substance that can be detected by the laboratories used – SLS and Eurofins, above the background method noise in a procedure and within a stated confidence level is referred to as the detection limit. The current practice identifies several detection limits, including the following: (1) the instrument detection limit (IDL), (2) the lower level detection limit (LLD), the method detection limit (MDL) and the practical quantitation limit (LOR). The relationship among these levels is approximately IDL: LLD: MDL: LOR = 1: 2: 4: 10. Refer to SLS and Eurofins for the list of LORs provided by their respective laboratories. When dilution of a sample is involved in the sample preparation, the method detection limit is adjusted by the dilution factor.

8.2 Field QA/QC

A summary of the QA/QC samples collected during field works is provided in Table 15.

Table 15. Summary of Field QA/QC Samples.

Field QA/QC	Frequency	Sample Details	Field QA/QC Frequency Achieved?
Blind replicate sample (soil)	1 per 10 samples	• 15 blind replicate sample was collected during the investigation. - BR1 is an intra-laboratory replicate of primary sample TP07 - BR is an intra-laboratory replicate of primary sample TP19 - BR2 is an intra-laboratory replicate of primary sample TP36 - BR1 is an intra-laboratory replicate of primary sample TP39 - BR is an intra-laboratory replicate of primary sample TP47 - BR2 is an intra-laboratory replicate of primary sample TP54 - BR1 is an intra-laboratory replicate of primary sample TP59 - BR2 is an intra-laboratory replicate of primary sample TP69 - BR1 is an intra-laboratory replicate of primary sample TP76 - BR2 is an intra-laboratory replicate of primary sample TP86 - BR is an intra-laboratory replicate of primary sample TP96 - BR is an intra-laboratory replicate of primary sample TP97 - BR2 is an intra-laboratory replicate of primary sample TP144 - BR2 is an intra-laboratory replicate of primary sample TP117 - BR is an intra-laboratory replicate of primary sample TP119	Yes

Field QA/QC	Frequency	Sample Details	Field QA/QC Frequency Achieved?
Split Replicate sample (soil)	1 per 20 samples	• 10 split replicate sample was collected during the investigation. - SR1 is an inter-laboratory replicate of primary sample TP76 - SR2 is an inter-laboratory replicate of primary sample TP36 - SR is an inter-laboratory replicate of primary sample TP51 - SR is an inter-laboratory replicate of primary sample TP47 - SR is an inter-laboratory replicate of primary sample TP59 - SR is an inter-laboratory replicate of primary sample TP119 - SR is an inter-laboratory replicate of primary sample TP96 - SR1 is an inter-laboratory replicate of primary sample TP97 - SR is an inter-laboratory replicate of primary sample TP07 - SR is an inter-laboratory replicate of primary sample TP19	
Trip Blank	6	• 6 trip blank samples was collected during the investigation.	
Trip Spike	6	• 6 trip spike samples was collected during the investigation.	

8.2.1 Blind and Split Replicate Samples

Australian Standard 4428.1 and the NEPM (2013) specifies the typical Relative Percentage Data (RPD) values for replicate samples to be below 30%. If both samples values are less than the Limits of Reporting (LOR), the RPD is not calculated. Valid values are sample concentrations that fall within the control limits of 0-30% described above. Invalid values are concentrations that are outside of the control limits.

8.3 Soil

- 15 intra-laboratory blind replicate soil sample was collected to determine the variability of the sampling process. The replicate samples was collected simultaneously from the same source and under identical conditions as the primary samples which can be seen in table 16 below.

Table 16.

Sample Name	Valid Values	Invalid Values
TP39-BR1-0.5	79	0
TP54-BR2-0.1	78	1
TP36-BR3-0.2	79	0
21.1994.TP47-BR	78	1
21.1994.BR1	79	0
21.1994.BR2	78	1
TP76-BR1	77	2
TP86-BR2-0.3	79	0
TP07FILL_0.0-0.2_BR	79	0
TP114-BR2	79	0
TP117-BR2	79	0
TP119-BR	77	2
TP19FILL_0.0-0.3_BR	79	0
TP96FILL_0.0-0.3_BR	79	0
TP97-BR	78	1

- 10 inter-laboratory split replicate sample was collected to measure the variability between the laboratory analysis process. The primary samples were submitted to SLS and were compared to the replicate samples submitted to Eurofins. The results can be seen below in table 17.

Table 17.

Sample Name	Valid Values	Invalid Values
TP47-fill-0.1 21.1994.SR	65	0
TP51-fill-0.9 TP51.SR	50	15
TP36-fill-0.2.SR2	0	0
TP59-fill-0.1.21.1994.SR	65	0
TP76-fill-0.3.SR1	64	1
TP07FILL_0.0-0.2.SR	65	0
TP119-SR	65	0
TP19FILL_0.0-0.3.SR	65	0
TP96FILL 0.0-0.3 SR	65	0
TP97-SR1	65	0

8.4 Laboratory QA/QC

8.4.1 Laboratory Duplicates

- Duplicate sample determinations were provided by the laboratories to demonstrate acceptable method precision at the time of analysis.
- Duplicates are generally analysed at a frequency of one (1) for every ten (10) samples. Australian Standard 4482.1 provides an acceptable range of the RPD values up to 50% for quality control samples, depending on the magnitude of results compared to the LOR.
- Analysis of laboratory duplicates showed nil invalid values.

8.5 QA / QC Data Evaluation

The qualitative and quantitative descriptors, so called Data Quality Indicators (DQIs), were used in interpreting the degree of acceptability of the data acquired in the course of the investigation.

The principle DQIs are precision, accuracy, representativeness, comparability, and completeness, referred to by the acronym PARCC. Precision and accuracy are quantitative measures, representativeness and comparability are qualitative, and completeness combines both quantitative and qualitative measures. Table 18 summarises the DQO reconciliation.

Table 18. Summary of DQO Reconciliation.

QA/QC Item	DQO Criteria	Valid Data	Invalid Data	Completeness	Conclusion
Blind Replicate Samples	75%	1177	8	99.32%	Acceptable
Split Replicate Samples	75%	569	16	97.19%	Acceptable
Trip Spike Samples	75%	620	0	100%	Acceptable
Trip Blank Samples	95%	567	0	100%	Acceptable
Overall Completeness:	**95%**	**2933**	**24**	**99.13%**	**Acceptable**

Notes to Table 18

1 - The one (1) invalid value was less than one (1) order of magnitude from the adopted LOR and was thus not considered to have an impact on the overall chemical assessment. .

*LOR – Limits of Reporting

A total of twenty-four 'invalid' values were recorded throughout the data quality assessment. ADE considers the 'invalid' results are likely attributed to the difficulties in obtaining a homogeneous sample from heterogeneous matrices. The ratio of the valid data to the total number of analyses conducted in the QA/QC program yielded **99.13%**%, thereby meeting the DQO criteria of 95% completeness.

9 Summary of Investigation Results

9.1 Field Observations

During site investigations, the soil matrix was observed to primarily consist of natural topsoil and medium clays. Some organic material and fine gravels were observed throughout the soil matrix. Shipping containers, water pumps and irrigation equipment as well as various vehicles were present throughout the site.

9.1.1 Site Soil and Sub Soil Geology

The profile of the soil materials within the investigation area consisted of natural material extending from 0.0 – 0.4 m bgl. Natural material was observed at 0.4m – 2.0m bgl.

9.1.2 PID Field Screening

Soil samples were screened for the presence of VOCs using a PID. The PID readings reported negligible concentrations across the Site, which ranged from 0.0 ppm to 0.3 ppm. This indicates that volatile petroleum hydrocarbons were not present at high concentrations. Refer to *Appendix II - Analytical Results Table* for PID Results.

9.2 Soil Results

Soil analytical results from each sample collected during the course of the investigation are presented in *Appendix II - Analytical Results Table*.

Laboratory results indicate that all samples collected returned with concentrations of CoPC below the SAC

9.2.1 Soil Suitability Assessment – Human Health

Of the 162 primary soil samples analysed for the full chemical suite that was utilised for the investigation, all samples returned with concentrations below that of the adopted human health assessment criteria for Tier 1 screening purposes for commercial/industrial sites (HIL-D) and health screening levels for vapour intrusion and direct human contact (HSL-D), as outlined in the NEPM (*NEPC, 2013*).

9.2.2 Asbestos Assessment

No asbestos was observed within any of the 500mL samples submitted for analysis (refer to *Appendix V - Chain of Custody Documentation and Analytical Reports*).

10 Conceptual Site Model

10.1 Potential Contamination Types

NEPM (NEPC, 2013) identifies a Conceptual Site Model (CSM) as a representation of information regarding contamination sources, exposure pathways and the potential receptors. The essential elements of a CSM include:

- Known (and potential) contamination sources and contaminants of concern
- Impacted media (e.g. soil, groundwater, surface water, soil vapour etc.)
- Human/ecological receptors and
- Potential/complete exposure pathways.

The CSM developed for the site was based on previous environmental data and the soil analytical results reported in this investigation. This provided an understanding of the CoPC and their likely pathways. For the purposes of this report, the following qualitative risk assessment has been applied:

- Low Risk – the activities and related CoPC are likely to pose no or a low potential human health/environmental impact. Any impact is likely localised to a specific area of the Site
- Moderate Risk – the activities and related CoPC are likely to pose potential for moderate human health/environmental impact. Any impact is likely localised to a specific area of the Sit
- High Risk – the activities and related CoPC could pose a significant environmental impact. There is potential for impacts of the immediate local area of the Site or off-Site migration impacting surrounding human and/or environmental receptors

10.2 Sources of Contamination and Contaminants of Potential Concern

The investigation identified 1 elevated concentration of contaminates in soil materials across the site. Sample TP27-fill-0.1 returned an exceedance of 4.68 mg/kg in relation to Benzene, however, did not exceed 2.5 times HSL-D criteria, therefore UCL95 was conducted using samples collected from same strata and within the same Lot (Lot 21 DP 255560) and returned an acceptable reading of 1.61 mg/kg, below the 3 mg/kg HSL-D criteria.

10.3 Model

Primary sources of contamination may include the following:

- On-site migration of unidentified contamination in adjacent lots/imported material in the event of excavation/movement of soil materials.
- Historical use of roadways for transport purposes
- Topsoil impacted by petroleum hydrocarbons
- Pesticides used throughout the site

Receptors of the contamination include:

- Construction workers and intrusive site workers
- Future owners/users of the site

Potential exposure pathways from the contamination to the receptors include:

- Exposure of construction workers and personnel on-site to contaminated site soils is possible. The risk is assessed as low due to the ability to manage the work site and implement appropriate controls.

ADE notes that none of the soil results reported in this investigation exceeded the adopted human health criteria (HSL-D)

- Exposure of the public to contaminated soils is unlikely. The site soil will be inaccessible to the public due to hardstand cover over most of the site

11 Discussion

11.1 Soil Contamination

From the 164 samples that were collected from 124 test pit locations throughout the Site, the samples returned with concentrations of CoPCs below the adopted human health and ecological criteria.

ADE understands any remediation of soils within the site may result in increased potential for dust by disturbing those soils. Given that major excavation work is proposed during the construction phase and chemical concentrations were below tier 1 assessment levels, ADE is of the opinion that remediation of soils under the proposed industrial estate are not required.

It is noted that soil materials at depth (>2.0 m) were not assessed as part of this investigation.

ADE notes previous AEC's and associated CoPC's outlined in Douglas Partners (DP) Contamination Status Summary Report (DP, 2021) **table 3**. As such, ADE wishes to revise said AEC's and associated COPC's due to sufficient sampling events and chemical analysis. See **table 19** below.

Table 19. Revision of AEC's and associated CoPC's

AEC #	Potential Source and Assigned AEC	Revision	Requirement for Additional Data and/or Management
AEC 1	Market gardening activities (pesticides)	No OCP, OPP or metal exceedances were identified within ADE's chemical analysis.	AEC 2 and AEC 3 remain open. Therefore, further intrusive investigation is required to assess potential contamination impact to surface soils. (A further assessment of soils and groundwater may be necessary should significant contamination be identified in surface soils).
AEC 2	Building construction, degradation and demolition structures (hazardous building materials)	Must remain in place and revisited post demolition of dwellings and other detached structures.	
AEC 3	Chemical and fuel use/storage (potential chemical spills)	Must remain in place due to access limitations in barns, storage spaces and garages.	
AEC 4	Stockpiles, fill and ground disturbances (unknown contamination status)	No TRH, BTEX, PAH, PCB, metals, OCP, OPP or asbestos exceedances were identified within ADE's chemical analysis.	
AEC 5	Presence of timber power poles	Sufficient sampling events conducted in the near vicinity of timber power poles revealed no elevation of TRH, BTEX, PAHs or metals within ADE's chemical analysis.	
AEC 6	Possible asbestos pipe network	No asbestos was located in ADE's visual inspection or within any of the analysed 500 mL NEMP samples. No pipe work was intercepted.	
AEC 7	Refuse	No asbestos was located in ADE's visual inspection or within any of the analysed 500 mL NEMP samples.	

Douglas Partners (DP) had previously collected soil samples from 12 test pits from a grid formation with an additional six targeted test pits on areas of concern. Depths ranging from 0 – 0.2m, 0.2 – 0.5m. Sampling sites which were tested for TPH's, heavy metals, PAH's, phenols, BTEX, pesticides (OCP, OPP and PCB), and asbestos. All results for TRH, BTEX, OCP's, OPP's, PCB's and Phenols were detected at concentration not exceeding regulation levels. One sample exceeded Ecological and Health Screening and Investigation safe levels of PAH's (SS18 benzo(a)pyrene (BaP) TEQ at 61mg/kg). Heavy metal samples had two zinc samples with exceeding Ecological Screening and Investigation levels (SS15 at 2400mg/kg and SS20 at 780mg/kg) and one had exceeding ESLs/ EILs of arsenic (SS14 at 230mg/kg). Asbestos (chrysotile) was detected in two material samples (MAT-1 and MAT-2) with no soil samples coming back with contamination.

11.2 Surface water

Based on the scope of the investigation, no groundwater assessment was undertaken. Surface water will be assessed and included within the final version of the report.

11.3 Duty to Report Contamination

For the purposes of section 60(3)(b) of the CLM Act, notification of contamination in, or on, soil on the land is required where:

- The 95 % UCL on the average arithmetic concentration of a contaminant in or on soil is equal to or above the HIL and/or HSL for that contaminant for the current or approved use of the respective on-site land, as specified in Section 6, Schedule B1 of the NEPM (2013) or
- The concentration of a contaminant in an individual soil sample is equal to or more than 250% of the HIL and/or HSL for that contaminant for the current or approved use of the respective on-site land, as specified in Section 6, Schedule B1 of the NEPM (NEPC, 2013) and
- A person has been or foreseeably will be exposed to the contaminant or a by-product of the contaminant

Based on the results of this investigation, ADE considers there is no duty to report contamination.

12 Conclusions

Based on the data and evidence collected from the Stage I DSI, the following conclusions can be made:

12.1 Soil Assessment

- At the time of the inspection, soil materials primarily consist of natural topsoil and medium clays. Some organic material and fine gravels were observed throughout the soil matrix.
- All field PID readings returned negligible concentrations in between 0.0 - 0.2 ppm
- Of the 162 primary soil samples analysed, no exceedances were recorded against any of the adopted human or ecological health SAC
- No asbestos was observed within any of the 10L samples screened on site, or detected within any of the 34 500 mL soil samples analysed
- Sample TP27-fill-0.1 returned an exceedance of 4.68 mg/kg in relation to Benzene, however, did not exceed 2.5 times HSL-D criteria, therefore a UCL95 was conducted using samples collected within the same strata and same Lot (Lot 21 DP 255560) and returned an acceptable reading of 1.61 mg/kg, which is below the 3 mg/kg HSL-D criteria.

12.2 Data Gaps

Based on the results of the soil assessment, and proposed development comprising of hardstand over the majority of the site, ADE considers that groundwater is not likely to be affected by on-site soils and the proposed development. Should development plans change, or should groundwater be encountered during the construction works, further assessment may be required.

ADE notes that certain areas were inaccessible due to market gardens and small-large greenhouses within lots 20, 22, 30 and 32, tall grass and dense vegetation throughout, underground septic tanks adjacent to properties, irrigation and drainage equipment throughout markets gardens and adjacent to dams, overhead height restrictions as well as other infrastructure preventing either the consultant or excavator from accessing a certain sampling point. As such, an adaptive sampling strategy was implemented by the by the on-site consultant which involved targeted sampling in safe and accessible areas. ADE intends to revisit inaccessible sampling points in the near future to take additional samples for chemical analysis.

12.3 Site Suitability

In the context of the proposed industrial estate development for warehousing, ADE concludes that the site can be considered suitable for the proposed commercial/industrial land use.

13 Limitations and Disclaimer

This report has been prepared for the exclusive use of the client and is limited to the scope of the work agreed in the terms and conditions of contract (including assumptions, limitations and qualifications, circumstances, and constraints). ADE has relied upon the accuracy of information and data provided to it by the client and others.

ADE has used a degree of care and skill ordinarily exercised in similar investigations by reputable members of the environmental industry in Australia. No other warranty, expressed or implied, is made or intended. No one section or part of a section, of this report should be taken as giving an overall idea of this report. Each section must be read in conjunction with the whole of this report, including its appendixes and attachments. The report is an integral document and must be read in its entirety.

To the fullest extent permitted by law, ADE does not accept or assume responsibility to any third party (other than the client) for the investigative work, the report or the opinions given.

The scope of work conducted, and report herein may not meet the specific needs (of which ADE is not aware) of third parties. ADE cannot be held liable for third party reliance on this document. Any third party who relies upon this report does so at its own risk.

The subsurface environment can present substantial uncertainty due to it complex heterogeneity. The conclusions presented in this report are based on limited investigation of conditions at specific sampling locations chosen to be as representative as possible under the given circumstances. However, it is possible that this investigation may not have encountered all areas of contamination at the site due to the limited sampling and testing program undertaken.

The material subject to classification pertains only to the site and subject area outlined within the report and must be consistent with the waste description reported. If there are any unexpected finds that are not consistent with this classification, ADE must be notified immediately.

ADE does not verify the accuracy or completeness of, or adopt as its own, the information or data supplied by others and excludes all liability with respect to such information and data. To the extent that conditions differ from assumptions set out in the report, and to the extent that information provided to ADE is inaccurate or incomplete or has changed since it was provided to ADE, the opinions expressed in this report may not be valid and should be reviewed.

ADE's professional opinions are based upon its professional judgement, experience, training, and results from analytical data. In some cases, further testing and analysis may be required, thus producing different results and/or opinions. ADE has limited its investigation to the scope agreed upon with its client.

This Limitation and Disclaimer must accompany every copy of this report.

14 References

- Australian Standard AS 4482.1 Guide to the sampling and investigation of potentially contaminated soil. Part 1: Non-volatile and semi-volatile compounds
- Australian Standard AS 4482.2 Guide to the sampling and investigation of potentially contaminated soil. Part 1: Volatiles substances
- Department of Land and Water Conservation (DWLC). (2002). *Site Investigations for Urban Salinity*. Sydney NSW.
- Department of Environment and Conservation (DEC). (2005). NSW Contaminated Sites: Guidelines for Assessing Former Orchards and Market Gardens, dated June 2005
- Department of Environment and Conservation (DEC). (2017). *Guidelines for the NSW Site Auditor Scheme*, 3rd Edition
- Guidance for the Data Quality Objectives Process (EPA QA/G-4)
- Guidance on Quality Assurance Project Plans (EPA QA/G-5)
- Guidance for the Preparation of Standard Operating Procedures for Quality-Related Documents (EPA QA/G-6)
- Guidance for Data Quality Assessment: Practical Methods for Data Analysis (EPA QA/G-9)
- Guidance on Data Quality Indicators, EPA QA/G-5I
- Guidelines on the Duty to Report Contamination under the Contaminated Management Act 1997
- National Environmental Protection (Assessment of Site Contamination) Measure 1999, 2013 Amendment
- NSW EPA Requirements for Quality Assurance Project Plans (EPA QA/R-5)
- NSW EPA Sampling Design Guidelines (1995)
- NSW EPA. (2000). Contaminated Sites: Guidelines for Consultants Reporting
- NSW EPA. (2001) Waste Avoidance and Recovery Act
- NSW EPA. (2014). Waste Classification Guidelines Part 1: Classifying Waste. NSW EPA, November 2014.
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- NSW EPA. (2017) Contaminated Land Management: Guidelines for the NSW Site Auditor Scheme 3rd Ed.
- NSW EPA (2020) Contaminated Land Guidelines: Consultant Reporting on Contaminated Land, 2020
- NSW Safework Australia Code of Practice - How to Safely Remove Asbestos, 2019
- Standards Australia. (2004). Australian Standard AS4964-2004: Method for the qualitative identification of asbestos in bulk samples. Sydney, NSW.
- The Heads of EPAs Australia and New Zealand [HEPA]. (2020). PFAS National Environmental Management Plan Version 2.0, dated January 2020 (HEPA, 2020).
- Western Australia Department of Health (WA DoH). (2009) Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia, dated May 2009.
- Workcover NSW Storage and Handling of Dangerous Goods (2005)
- Work Health and Safety Act 2011
- Work Health and Safety Regulation 2017

APPENDIX A - FIGURES



REGIONAL MAP
SOURCE: http://www.wheris.com/

ALDINGTON ROAD

TP1 TP2 TP3 TP4 TP5 TP6 TP7 TP8 TP9 TP10 TP11 TP12 TP13 TP14 TP15 TP16 TP17 TP18 TP19 TP20 TP21 TP22 TP23 TP24 TP25 TP26 TP27 TP29 TP30 TP31 TP32 TP33 TP34 TP35 TP36 TP37 TP38 TP39 TP40 TP41 TP42 TP43 TP44 TP45 TP46 TP47 TP48 TP49 TP50 TP51 TP52 TP53 TP54 TP55 TP56 TP57 TP58 TP59 TP60 TP61 TP62 TP63 TP64 TP65 TP66 TP67 TP68 TP69 TP70 TP71 TP72 TP73 TP74 TP75 TP76 TP77 TP78 TP79 TP80 TP81 TP82 TP83 TP84 TP85 TP86 TP87 TP88 TP89 TP90 TP91 TP92 TP93 TP94 TP95 TP96 TP97 TP98 TP99 TP100 TP101 TP102 TP103 TP104 TP105 TP106 TP107 TP108 TP109 TP110 TP111 TP112 TP113 TP114 TP115 TP116 TP117 TP118 TP119 TP120 TP122 TP123 TP124 TP125 TP126 TP127 TP128 TP129 TP130

LEGEND

SUBJECT AREA

TP TEST PIT LOCATION

NOTE:
ALL LOCATIONS ARE APPROXIMATE
DIMENSIONS IN METRES.

AERIAL IMAGE SOURCE: MAPS.AU.NEARMAP.COM, 17 DEC 2021.

revision	no.	description	drawn	approved	date
	A	FIRST ISSUE	MC	HN	19/01/22

0 55 110 165 220 275
SCALE 1:5500 @A3 METRES

drawn	MC
approved	HN
date	19/01/2022
scale	AS SHOWN
original size	A3

client: FIFE CAPITAL

project: DETAILED SITE INVESTIGATION
LOT 20-32 ALDINGTON ROAD
KEMPS CREEK, NSW

title: SAMPLE LOCATION AND SITE LOCATION PLAN

project no: 21.1994_DSI | figure no: FIGURE 1 | rev: A

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PLOT DATE: 20/01/2022 23:30:09 DWG FILE: W:_NEW DELTEK PROJECTS ENV\21.1994 FIFE CAPITAL DSI (KEMPS CREEK) HN_6 WORKING DOCUMENTS_4 CAD (MC)\21.1994_DSI.DWG



LEGEND

- SUBJECT AREA
- 1 TEST PIT LOCATION (DOUGLAS PARTNERS, 2019)
- 1 SURFACE SAMPLE LOCATION (DOUGLAS PARTNERS, 2019)

NOTE:
ALL LOCATIONS ARE APPROXIMATE
DIMENSIONS IN METRES.

AERIAL IMAGE SOURCE: MAPS.AU.NEARMAP.COM, 17 DEC 2021.

revision	no.	description	drawn	approved	date
	A	FIRST ISSUE	MC	HN	19/01/22

0 55 110 165 220 275
SCALE 1:5500 @A3 METRES

drawn	MC
approved	HN
date	19/01/2022
scale	AS SHOWN
original size	A3

client: FIFE CAPITAL

project: DETAILED SITE INVESTIGATION
LOT 20-32 ALDINGTON ROAD
KEMPS CREEK, NSW

title: PREVIOUS SAMPLE LOCATION

project no: 21.1994_DSI | figure no: FIGURE 2 | rev: A

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PLOT DATE: 10/02/2022 16:28:24 DWG FILE: W:_NEW DELTEK PROJECTS ENV\21.1994 FIFE CAPITAL DSI (KEMPS CREEK) HN_6 WORKING DOCUMENTS_4 CAD (MC)\21.1994_DSI_1.DWG

APPENDIX B – ANALYTICAL RESULTS TABLE

		NA	BTEX							TRH										
		2-Methyl-4,6-dinitrophenol	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	Total BTEX	C6-C10 Fraction (F1)	C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	2,3,4,5-Tetrachlorophenol	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.5	0.5	0.5	1	0.5	1	1	35	35	50	100	100	50	0.1	0.1	0.1	0.05	0.05
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay			4 | 6 | 9 | 20								310 | 480									
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand			3 | 3 | 3 | 3					230			260 | 370 | 630									
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Silt			4 | 4 | 6 | 10								250 | 360 | 590									
NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind																				
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil			75	135	165			180			215	170	1,700	3,300						
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																				
Field ID	**Date**																			
21.1994.BR1	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
21.1994.BR2	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
21.1994.TP47-BR	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP01FILL_0.0-0.3	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP02FILL_0.0-0.2	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP03FILL_0.0-0.3	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP03NAT_0.3-1.3	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP04FILL_0.0-0.2	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP05FILL_0.0-0.5	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP05NAT_0.5-1.8	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP06FILL_0.0-0.2	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP07FILL_0.0-0.2	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP10FILL_0.0-0.2	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP10FILL_0.2-0.7	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP10NAT_0.7-1.0	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP11FILL_0.0-0.3	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP12FILL_0.0-0.3	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP19FILL_0.0-0.3	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP19FILL_0.0-0.3_BR	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP20FILL_0.0-0.3	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP21FILL_0.0-0.2	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP22FILL_0.0-0.2	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP23-fill-0.1	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP23-fill-0.1	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP23-natural-0.4	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP24-fill-0.1	**21/12/2021**	<2	<0.5	<0.5	<0.5	<1	<0.5	<1	<1	<35	<35	<50	<100	<100	<50	<0.1	<0.1	<0.1	<0.05	<0.05
TP24-natural-0.4	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP25-fill-0.1	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP25-fill-0.1	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP26-fill-0.1	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP26-natural-0.4	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP27-fill-0.1	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP27-fill-0.1	**21/12/2021**		4.68	5.13	5.1	8.5	5.1	13.6	28.51	70	41	<50	<100	<100	<50					
TP27-natural-0.4	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP28FILL_0.0-0.3	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP29FILL_0.0-0.3	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP30FILL_0.0-0.2	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP31FILL_0.0-0.3	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP32FILL_0.0-0.3	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP33FILL_0.0-0.2	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP34FILL_0.0-0.3	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP34NAT_0.3-1.0	**21/01/2022**	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<35	<35	<50	<100	<100	<50	<0.10	<0.10	<0.10	<0.050	<0.050
TP35-Fill-0.1	**1/02/2022**		<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<35	<35	<50	<100	<100	<50					
TP36-BR3-0.2	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP36-fill-0.2	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP36-natural-0.3	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP37-fill-0.3	**21/12/2021**	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<35	<35	<50	<100	<100	<50	<0.10	<0.10	<0.10	<0.050	<0.050
TP37-natural-0.4	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP38-fill-0.3	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP39-BR1-0.5	**20/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP39-fill-0.5	**20/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP39-fill-0.5	**20/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP40-fill-0.5	**20/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					

		NA	BTEX							TRH										
		2-Methyl-4,6-dinitrophenol	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	Total BTEX	C6-C10 Fraction (F1)	C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	2,3,4,5-Tetrachlorophenol	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TP41-fill-0.5	**20/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP41-fill-0.5	**20/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP42-fill-0.5	**20/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP43-fill-0.2	**20/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP43-fill-0.2	**20/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP43-natural-0.3	**20/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP44-fill-0.3	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP44-natural-0.4	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP45-fill-0.3	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP46-fill-0.3	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP46-natural-0.4	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP47-fill-0.1	**21/12/2021**	<2	<0.5	<0.5	<0.5	<1	<0.5	<1	<1	<35	<35	<50	<100	<100	<50	<0.1	<0.1	<0.1	<0.05	<0.05
TP47-natural-0.3	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP48-fill-0.1	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP48-natural-0.3	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP49-fill-0.1	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP49-fill-0.1	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP50-fill-0.2	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP50-fill-0.2	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP50-natural-0.4	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP51-fill-0.9	**20/12/2021**	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<35	<35	<50	<100	<100	<50	<0.10	<0.10	<0.10	<0.050	<0.050
TP51-natural-1.0	**20/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP52-fill-0.3	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP52-fill-0.3	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP52-natural-0.4	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP53-fill-0.1	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP54-BR2-0.1	**20/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP54-fill-0.1	**20/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP54-fill-0.1	**20/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP54-fill-0.2	**20/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP55-fill-0.1	**20/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP56-fill-0.4	**20/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP56-fill-0.4	**20/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP56-natural-0.5	**20/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP57-fill-0.1	**20/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP57-natural-0.2	**20/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP58-fill-0.1	**20/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP58-fill-0.1	**20/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP59-fill-0.1	**21/12/2021**	<2	<0.5	<0.5	<0.5	<1	<0.5	<1	<1	<35	<35	<50	<100	<100	<50	<0.1	<0.1	<0.1	<0.05	<0.05
TP59-natural-0.2	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP60-fill-0.1	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP60-fill-0.1	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP61-fill-0.2	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP61-natural-0.3	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP62-fill-0.2	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP62-fill-0.2	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP62-natural-0.3	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP63-fill-0.1	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP64-fill-0.2	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP64-fill-0.2	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP64-natural-0.3	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP65-fill-0.1	**21/12/2021**	<2	<0.5	<0.5	<0.5	<1	<0.5	<1	<1	<35	<35	<50	<100	<100	<50	<0.1	<0.1	<0.1	<0.05	<0.05
TP65-natural-0.25	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP66-fill-0.1	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP66-fill-0.1	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP67-fill-0.1	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP67-natural-0.2	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP68-fill-0.1	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP68-fill-0.1	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP68-natural-0.3	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP69-fill-0.1	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP70-fill-0.2	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					

		NA	BTEX							TRH										
		2-Methyl-4,6-dinitrophenol	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	Total BTEX	C6-C10 Fraction (F1)	C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	2,3,4,5-Tetrachlorophenol	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TP70-fill-0.2	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP70-natural-0.4	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP71-fill-0.1	**21/12/2021**	<2	<0.5	<0.5	<0.5	<1	<0.5	<1	<1	<35	<35	<50	<100	<100	<50	<0.1	<0.1	<0.1	<0.05	<0.05
TP71-natural-0.3	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP72-fill-0.2	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP72-fill-0.2	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP73-fill-0.1	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP73-natural-0.2	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP74-fill-0.1	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP74-fill-0.1	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP74-natural-0.1	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP75-fill-0.1	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP75-natural-0.3	**21/12/2021**		<0.5	<0.5	<1	<2	<1	<2	<2	<35	<35	<50	<100	<100	<50					
TP76-BR1	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP76-fill-0.3	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP76-fill-0.3	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP77-fill-0.5	**21/12/2021**	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<35	<35	<50	<100	<100	<50	<0.10	<0.10	<0.10	<0.050	<0.050
TP77-natural-0.6	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP78-fill-0.3	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP78-fill-0.3	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP79-fill-0.2	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP79-natural-0.3	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP80-fill-0.2	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP80-fill-0.2	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP80-natural-0.3	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP81-fill-0.2	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP82-fill-0.2	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP82-fill-0.2	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP82-fill-0.3	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP83-fill-0.3	**21/12/2021**	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<35	<35	<50	<100	<100	<50	<0.10	<0.10	<0.10	<0.050	<0.050
TP83-natural-0.4	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP84-fill-0.2	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP84-fill-0.2	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP85-fill-0.3	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP85-natural-0.4	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP86-BR2-0.3	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP86-fill-0.3	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP86-fill-0.3	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP86-natural-0.4	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP87-fill-0.3	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP92-fill-0.4	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP92-fill-0.4	**21/12/2021**	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<35	<35	<50	<100	<100	<50	<0.10	<0.10	<0.10	<0.050	<0.050
TP92-natural-0.5	**21/12/2021**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP97-BR	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP97-fill	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP97-nat	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP98-fill	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP98-nat	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP99-fill	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP100-fill	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP100-fill	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP100-nat	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP105-fill	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP106-fill	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP106-fill	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP106-nat	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP107-fill	**21/01/2022**	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<35	<35	<50	<100	<100	<50	<0.10	<0.10	<0.10	<0.050	<0.050
TP107-nat	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP108-fill	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP108-fill	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP110-fill	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP110-nat	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					

		NA	BTEX							TRH										
		2-Methyl-4,6-dinitrophenol	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	Total BTEX	C6-C10 Fraction (F1)	C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	2,3,4,5-Tetrachlorophenol	2,3,4,6-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TP111-fill	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP112-fill	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP112-fill	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP112-nat	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP113-fill	**21/01/2022**	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<35	<35	<50	<100	<100	<50	<0.10	<0.10	<0.10	<0.050	<0.050
TP113-nat	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP114-BR2	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP114-fill	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP114-fill	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP115-fill	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP115-nat	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP116-fill	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP116-fill	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP116-nat	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP117-BR2	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP117-fill	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP118-fill	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP118-nat	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP119-BR	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP119-fill	**21/01/2022**	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<35	<35	<50	<100	<100	<50	<0.10	<0.10	<0.10	<0.050	<0.050
TP119-nat	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP120-fill	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP122-fill	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP122-nat	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP123-fill	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP124-fill	**21/01/2022**	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<35	<35	<50	<100	<100	<50	<0.10	<0.10	<0.10	<0.050	<0.050
TP124-nat	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP125-fill	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP126-fill	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP126-nat	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP127-fill	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP127-nat	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP128-fill	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP129-fill	**21/01/2022**	<2.0	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<1.0	<35	<35	<50	<100	<100	<50	<0.10	<0.10	<0.10	<0.050	<0.050
TP129-nat	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					
TP130-fill	**21/01/2022**		<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<35	<35	<50	<100	<100	<50					

Statistics

Number of Results	**16**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**16**	**16**	**16**	**16**	**16**
Number of Detects	**0**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Minimum Concentration	**<2**	**<0.5**	**<0.5**	**<0.5**	**<1**	**<0.5**	**<1**	**<1**	**<35**	**<35**	**<50**	**<100**	**<100**	**<50**	**<0.1**	**<0.1**	**<0.1**	**<0.05**	**<0.05**
Minimum Detect	**ND**	**4.68**	**5.13**	**5.1**	**8.5**	**5.1**	**13.6**	**28.51**	**70**	**41**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
Maximum Concentration	**<2**	**4.68**	**5.13**	**5.1**	**8.5**	**5.1**	**13.6**	**28.51**	**70**	**41**	**<50**	**<100**	**<100**	**<50**	**<0.1**	**<0.1**	**<0.1**	**<0.05**	**<0.05**
Maximum Detect	**ND**	**4.68**	**5.13**	**5.1**	**8.5**	**5.1**	**13.6**	**28.51**	**70**	**41**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
Average Concentration *	**1**	**0.27**	**0.27**	**0.5**	**1**	**0.5**	**1**	**1.1**	**18**	**18**	**25**	**50**	**50**	**25**	**0.05**	**0.05**	**0.05**	**0.025**	**0.025**
Median Concentration *	**1**	**0.25**	**0.25**	**0.5**	**1**	**0.5**	**1**	**1**	**17.5**	**17.5**	**25**	**50**	**50**	**25**	**0.05**	**0.05**	**0.05**	**0.025**	**0.025**
Standard Deviation *	**0**	**0.3**	**0.33**	**0.32**	**0.53**	**0.32**	**0.88**	**1.9**	**3.6**	**1.6**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
95% UCL (Student's-t) *	**1**	**0.305**	**0.311**	**0.538**	**1.056**	**0.538**	**1.118**	**1.303**	**18.15**	**17.79**	**25**	**50**	**50**	**25**	**0.05**	**0.05**	**0.05**	**0.025**	**0.025**
% of Detects	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
% of Non-Detects	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

2013, NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay
2013, NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand
2013, NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Silt
2013, NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil
2013, NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil

		Phenols																		
		2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	4,6-Dinitro-o-cyclohexyl phenol	4-chloro-3-methylphenol	4-Nitrophenol	Cresol Total	Pentachlorophenol	Phenol	Phenols	Other chlorinated hydrocarbons EPAVic	Total Chlorinated Hydrocarbons	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		0.05	0.2	4	0.05	0.1	0.2	0.2	5	0.2	4	0.4	0.2	0.2	0.05	0.5	0.5	0.5	0.5	0.5
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay																				
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																				
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Silt																				
NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind																				
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil																				
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil												25,000	660	240,000						
Field ID	**Date**																			
21.1994.BR1	**21/12/2021**																			
21.1994.BR2	**21/12/2021**																			
21.1994.TP47-BR	**21/12/2021**																			
TP01FILL_0.0-0.3	**21/01/2022**																			
TP02FILL_0.0-0.2	**21/01/2022**																			
TP03FILL_0.0-0.3	**21/01/2022**																			
TP03NAT_0.3-1.3	**21/01/2022**																			
TP04FILL_0.0-0.2	**21/01/2022**																			
TP05FILL_0.0-0.5	**21/01/2022**																			
TP05NAT_0.5-1.8	**21/01/2022**																			
TP06FILL_0.0-0.2	**21/01/2022**																			
TP07FILL_0.0-0.2	**21/01/2022**																			
TP10FILL_0.0-0.2	**21/01/2022**																			
TP10FILL_0.2-0.7	**21/01/2022**																			
TP10NAT_0.7-1.0	**21/01/2022**																			
TP11FILL_0.0-0.3	**21/01/2022**																			
TP12FILL_0.0-0.3	**21/01/2022**																			
TP19FILL_0.0-0.3	**21/01/2022**																			
TP19FILL_0.0-0.3_BR	**21/01/2022**																			
TP20FILL_0.0-0.3	**21/01/2022**																			
TP21FILL_0.0-0.2	**21/01/2022**																			
TP22FILL_0.0-0.2	**21/01/2022**																			
TP23-fill-0.1	**21/12/2021**																			
TP23-fill-0.1	**21/12/2021**																			
TP23-natural-0.4	**21/12/2021**																			
TP24-fill-0.1	**21/12/2021**	<0.05	<0.2	<4	<0.05	<0.1	<0.2	<0.2	<5	<0.2	<4	<0.4	<0.2	<0.2		<0.5	<0.5	<0.5	<0.5	<0.5
TP24-natural-0.4	**21/12/2021**																			
TP25-fill-0.1	**21/12/2021**																			
TP25-fill-0.1	**21/12/2021**																			
TP26-fill-0.1	**21/12/2021**																			
TP26-natural-0.4	**21/12/2021**																			
TP27-fill-0.1	**21/12/2021**																			
TP27-fill-0.1	**21/12/2021**																			
TP27-natural-0.4	**21/12/2021**																			
TP28FILL_0.0-0.3	**21/01/2022**																			
TP29FILL_0.0-0.3	**21/01/2022**																			
TP30FILL_0.0-0.2	**21/01/2022**																			
TP31FILL_0.0-0.3	**21/01/2022**																			
TP32FILL_0.0-0.3	**21/01/2022**																			
TP33FILL_0.0-0.2	**21/01/2022**																			
TP34FILL_0.0-0.3	**21/01/2022**																			
TP34NAT_0.3-1.0	**21/01/2022**	<0.050	<0.20	<4.0	<0.050	<0.10	<0.20	<0.20	<5.0	<0.20	<4.0	<0.40	<0.20	<0.20		<0.50	<0.50	<0.50	<0.50	<0.50
TP35-Fill-0.1	**1/02/2022**															<0.50	<0.50	<0.50	<0.50	<0.50
TP36-BR3-0.2	**21/12/2021**																			
TP36-fill-0.2	**21/12/2021**																			
TP36-natural-0.3	**21/12/2021**																			
TP37-fill-0.3	**21/12/2021**	<0.050	<0.20	<4.0	<0.050	<0.10	<0.20	<0.20	<5.0	<0.20	<4.0	<0.40	<0.20	<0.20		<0.50	<0.50	<0.50	<0.50	<0.50
TP37-natural-0.4	**21/12/2021**																			
TP38-fill-0.3	**21/12/2021**																			
TP39-BR1-0.5	**20/12/2021**																			
TP39-fill-0.5	**20/12/2021**																			
TP39-fill-0.5	**20/12/2021**																			
TP40-fill-0.5	**20/12/2021**																			

		Phenols																		
		2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	4,6-Dinitro-o-cyclohexyl phenol	4-chloro-3-methylphenol	4-Nitrophenol	Cresol Total	Pentachlorophenol	Phenol	Phenols	Other chlorinated hydrocarbons EPAVic	Total Chlorinated Hydrocarbons	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TP41-fill-0.5	20/12/2021																			
TP41-fill-0.5	20/12/2021																			
TP42-fill-0.5	20/12/2021																			
TP43-fill-0.2	20/12/2021																			
TP43-fill-0.2	20/12/2021																			
TP43-natural-0.3	20/12/2021																			
TP44-fill-0.3	21/12/2021																			
TP44-natural-0.4	21/12/2021																			
TP45-fill-0.3	21/12/2021																			
TP46-fill-0.3	21/12/2021																			
TP46-natural-0.4	21/12/2021																			
TP47-fill-0.1	21/12/2021	<0.05	<0.2	<4	<0.05	<0.1	<0.2	<0.2	<5	<0.2	<4	<0.4	<0.2	<0.2		<0.5	<0.5	<0.5	<0.5	<0.5
TP47-natural-0.3	21/12/2021																			
TP48-fill-0.1	21/12/2021																			
TP48-natural-0.3	21/12/2021																			
TP49-fill-0.1	21/12/2021																			
TP49-fill-0.1	21/12/2021																			
TP50-fill-0.2	21/12/2021																			
TP50-fill-0.2	21/12/2021																			
TP50-natural-0.4	21/12/2021																			
TP51-fill-0.9	20/12/2021	<0.050	<0.20	<4.0	<0.050	<0.10	<0.20	<0.20	<5.0	<0.20	<4.0	<0.40	<0.20	<0.20	<0.050	<0.50	<0.50	<0.50	<0.50	<0.50
TP51-natural-1.0	20/12/2021																			
TP52-fill-0.3	21/12/2021																			
TP52-fill-0.3	21/12/2021																			
TP52-natural-0.4	21/12/2021																			
TP53-fill-0.1	21/12/2021																			
TP54-BR2-0.1	20/12/2021																			
TP54-fill-0.1	20/12/2021																			
TP54-fill-0.1	20/12/2021																			
TP54-fill-0.2	20/12/2021																			
TP55-fill-0.1	20/12/2021																			
TP56-fill-0.4	20/12/2021																			
TP56-fill-0.4	20/12/2021																			
TP56-natural-0.5	20/12/2021																			
TP57-fill-0.1	20/12/2021																			
TP57-natural-0.2	20/12/2021																			
TP58-fill-0.1	20/12/2021																			
TP58-fill-0.1	20/12/2021																			
TP59-fill-0.1	21/12/2021	<0.05	<0.2	<4	<0.05	<0.1	<0.2	<0.2	<5	<0.2	<4	<0.4	<0.2	<0.2		<0.5	<0.5	<0.5	<0.5	<0.5
TP59-natural-0.2	21/12/2021																			
TP60-fill-0.1	21/12/2021																			
TP60-fill-0.1	21/12/2021																			
TP61-fill-0.2	21/12/2021																			
TP61-natural-0.3	21/12/2021																			
TP62-fill-0.2	21/12/2021																			
TP62-fill-0.2	21/12/2021																			
TP62-natural-0.3	21/12/2021																			
TP63-fill-0.1	21/12/2021																			
TP64-fill-0.2	21/12/2021																			
TP64-fill-0.2	21/12/2021																			
TP64-natural-0.3	21/12/2021																			
TP65-fill-0.1	21/12/2021	<0.05	<0.2	<4	<0.05	<0.1	<0.2	<0.2	<5	<0.2	<4	<0.4	<0.2	<0.2		<0.5	<0.5	<0.5	<0.5	<0.5
TP65-natural-0.25	21/12/2021																			
TP66-fill-0.1	21/12/2021																			
TP66-fill-0.1	21/12/2021																			
TP67-fill-0.1	21/12/2021																			
TP67-natural-0.2	21/12/2021																			
TP68-fill-0.1	21/12/2021																			
TP68-fill-0.1	21/12/2021																			
TP68-natural-0.3	21/12/2021																			
TP69-fill-0.1	21/12/2021																			
TP70-fill-0.2	21/12/2021																			

		Phenols																		
		2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	4,6-Dinitro-o-cyclohexyl phenol	4-chloro-3-methylphenol	4-Nitrophenol	Cresol Total	Pentachlorophenol	Phenol	Phenols	Other chlorinated hydrocarbons EPAVic	Total Chlorinated Hydrocarbons	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TP70-fill-0.2	**21/12/2021**																			
TP70-natural-0.4	**21/12/2021**																			
TP71-fill-0.1	**21/12/2021**	<0.05	<0.2	<4	<0.05	<0.1	<0.2	<0.2	<5	<0.2	<4	<0.4	<0.2	<0.2		<0.5	<0.5	<0.5	<0.5	<0.5
TP71-natural-0.3	**21/12/2021**																			
TP72-fill-0.2	**21/12/2021**																			
TP72-fill-0.2	**21/12/2021**																			
TP73-fill-0.1	**21/12/2021**																			
TP73-natural-0.2	**21/12/2021**																			
TP74-fill-0.1	**21/12/2021**																			
TP74-fill-0.1	**21/12/2021**																			
TP74-natural-0.1	**21/12/2021**																			
TP75-fill-0.1	**21/12/2021**																			
TP75-natural-0.3	**21/12/2021**																			
TP76-BR1	**21/12/2021**																			
TP76-fill-0.3	**21/12/2021**																			
TP76-fill-0.3	**21/12/2021**																			
TP77-fill-0.5	**21/12/2021**	<0.050	<0.20	<4.0	<0.050	<0.10	<0.20	<0.20	<5.0	<0.20	<4.0	<0.40	<0.20	<0.20		<0.50	<0.50	<0.50	<0.50	<0.50
TP77-natural-0.6	**21/12/2021**																			
TP78-fill-0.3	**21/12/2021**																			
TP78-fill-0.3	**21/12/2021**																			
TP79-fill-0.2	**21/12/2021**																			
TP79-natural-0.3	**21/12/2021**																			
TP80-fill-0.2	**21/12/2021**																			
TP80-fill-0.2	**21/12/2021**																			
TP80-natural-0.3	**21/12/2021**																			
TP81-fill-0.2	**21/12/2021**																			
TP82-fill-0.2	**21/12/2021**																			
TP82-fill-0.2	**21/12/2021**																			
TP82-fill-0.3	**21/12/2021**																			
TP83-fill-0.3	**21/12/2021**	<0.050	<0.20	<4.0	<0.050	<0.10	<0.20	<0.20	<5.0	<0.20	<4.0	<0.40	<0.20	<0.20		<0.50	<0.50	<0.50	<0.50	<0.50
TP83-natural-0.4	**21/12/2021**																			
TP84-fill-0.2	**21/12/2021**																			
TP84-fill-0.2	**21/12/2021**																			
TP85-fill-0.3	**21/12/2021**																			
TP85-natural-0.4	**21/12/2021**																			
TP86-BR2-0.3	**21/12/2021**																			
TP86-fill-0.3	**21/12/2021**																			
TP86-fill-0.3	**21/12/2021**																			
TP86-natural-0.4	**21/12/2021**																			
TP87-fill-0.3	**21/12/2021**																			
TP92-fill-0.4	**21/12/2021**																			
TP92-fill-0.4	**21/12/2021**	<0.050	<0.20	<4.0	<0.050	<0.10	<0.20	<0.20	<5.0	<0.20	<4.0	<0.40	<0.20	<0.20		<0.50	<0.50	<0.50	<0.50	<0.50
TP92-natural-0.5	**21/12/2021**																			
TP97-BR	**21/01/2022**																			
TP97-fill	**21/01/2022**																			
TP97-nat	**21/01/2022**																			
TP98-fill	**21/01/2022**																			
TP98-nat	**21/01/2022**																			
TP99-fill	**21/01/2022**																			
TP100-fill	**21/01/2022**																			
TP100-fill	**21/01/2022**																			
TP100-nat	**21/01/2022**																			
TP105-fill	**21/01/2022**																			
TP106-fill	**21/01/2022**																			
TP106-fill	**21/01/2022**																			
TP106-nat	**21/01/2022**																			
TP107-fill	**21/01/2022**	<0.050	<0.20	<4.0	<0.050	<0.10	<0.20	<0.20	<5.0	<0.20	<4.0	<0.40	<0.20	<0.20		<0.50	<0.50	<0.50	<0.50	<0.50
TP107-nat	**21/01/2022**																			
TP108-fill	**21/01/2022**																			
TP108-fill	**21/01/2022**																			
TP110-fill	**21/01/2022**																			
TP110-nat	**21/01/2022**																			

		Phenols																		
		2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	4,6-Dinitro-o-cyclohexyl phenol	4-chloro-3-methylphenol	4-Nitrophenol	Cresol Total	Pentachlorophenol	Phenol	Phenols	Other chlorinated hydrocarbons EPAVic	Total Chlorinated Hydrocarbons	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TP111-fill	**21/01/2022**																			
TP112-fill	**21/01/2022**																			
TP112-fill	**21/01/2022**																			
TP112-nat	**21/01/2022**																			
TP113-fill	**21/01/2022**	<0.050	<0.20	<4.0	<0.050	<0.10	<0.20	<0.20	<5.0	<0.20	<4.0	<0.40	<0.20	<0.20		<0.50	<0.50	<0.50	<0.50	<0.50
TP113-nat	**21/01/2022**																			
TP114-BR2	**21/01/2022**																			
TP114-fill	**21/01/2022**																			
TP114-fill	**21/01/2022**																			
TP115-fill	**21/01/2022**																			
TP115-nat	**21/01/2022**																			
TP116-fill	**21/01/2022**																			
TP116-fill	**21/01/2022**																			
TP116-nat	**21/01/2022**																			
TP117-BR2	**21/01/2022**																			
TP117-fill	**21/01/2022**																			
TP118-fill	**21/01/2022**																			
TP118-nat	**21/01/2022**																			
TP119-BR	**21/01/2022**																			
TP119-fill	**21/01/2022**	<0.050	<0.20	<4.0	<0.050	<0.10	<0.20	<0.20	<5.0	<0.20	<4.0	<0.40	<0.20	<0.20		<0.50	<0.50	<0.50	<0.50	<0.50
TP119-nat	**21/01/2022**																			
TP120-fill	**21/01/2022**																			
TP122-fill	**21/01/2022**																			
TP122-nat	**21/01/2022**																			
TP123-fill	**21/01/2022**																			
TP124-fill	**21/01/2022**	<0.050	<0.20	<4.0	<0.050	<0.10	<0.20	<0.20	<5.0	<0.20	<4.0	<0.40	<0.20	<0.20		<0.50	<0.50	<0.50	<0.50	<0.50
TP124-nat	**21/01/2022**																			
TP125-fill	**21/01/2022**																			
TP126-fill	**21/01/2022**																			
TP126-nat	**21/01/2022**																			
TP127-fill	**21/01/2022**																			
TP127-nat	**21/01/2022**																			
TP128-fill	**21/01/2022**																			
TP129-fill	**21/01/2022**	<0.050	<0.20	<4.0	<0.050	<0.10	<0.20	<0.20	<5.0	<0.20	<4.0	<0.40	<0.20	<0.20		<0.50	<0.50	<0.50	<0.50	<0.50
TP129-nat	**21/01/2022**																			
TP130-fill	**21/01/2022**																			

Statistics

Number of Results	**16**	**16**	**16**	**16**	**16**	**16**	**16**	**16**	**16**	**16**	**16**	**16**	**16**	**1**	**17**	**17**	**17**	**17**	**17**
Number of Detects	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Minimum Concentration	**<0.05**	**<0.2**	**<4**	**<0.05**	**<0.1**	**<0.2**	**<0.2**	**<5**	**<0.2**	**<4**	**<0.4**	**<0.2**	**<0.2**	**<0.05**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
Minimum Detect	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
Maximum Concentration	**<0.05**	**<0.2**	**<4**	**<0.05**	**<0.1**	**<0.2**	**<0.2**	**<5**	**<0.2**	**<4**	**<0.4**	**<0.2**	**<0.2**	**<0.05**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
Maximum Detect	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
Average Concentration *	**0.025**	**0.1**	**2**	**0.025**	**0.05**	**0.1**	**0.1**	**2.5**	**0.1**	**2**	**0.2**	**0.1**	**0.1**		**0.25**	**0.25**	**0.25**	**0.25**	**0.25**
Median Concentration *	**0.025**	**0.1**	**2**	**0.025**	**0.05**	**0.1**	**0.1**	**2.5**	**0.1**	**2**	**0.2**	**0.1**	**0.1**	**0.025**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**
Standard Deviation *	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**		**0**	**0**	**0**	**0**	**0**
95% UCL (Student's-t) *	**0.025**	**0.1**	**2**	**0.025**	**0.05**	**0.1**	**0.1**	**2.5**	**0.1**	**2**	**0.2**	**0.1**	**0.1**		**0.25**	**0.25**	**0.25**	**0.25**	**0.25**
% of Detects	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
% of Non-Detects	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

2013, NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay
2013, NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand
2013, NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Silt
2013, NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil
2013, NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil

		Chlorinated Hydrocarbons													Halogenated Benzenes					Herbicides
		1,1,2-trichloroethane	1,1-dichloroethene	1,2-dichloroethane	Bromochloromethane	Carbon tetrachloride	Chloroform	cis-1,2-dichloroethene	Dichloromethane	Hexachlorobutadiene	Trichloroethene	Tetrachloroethene	trans-1,2-dichloroethene	Vinyl chloride	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	Dinoseb
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.1	5
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay																				
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																				
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Silt																				
NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind																				
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil																				
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																			80	
Field ID	**Date**																			
21.1994.BR1	**21/12/2021**																		<0.1	
21.1994.BR2	**21/12/2021**																		<0.1	
21.1994.TP47-BR	**21/12/2021**																		<0.1	
TP01FILL_0.0-0.3	**21/01/2022**																		<0.10	
TP02FILL_0.0-0.2	**21/01/2022**																		<0.10	
TP03FILL_0.0-0.3	**21/01/2022**																		<0.10	
TP03NAT_0.3-1.3	**21/01/2022**																		<0.10	
TP04FILL_0.0-0.2	**21/01/2022**																		<0.10	
TP05FILL_0.0-0.5	**21/01/2022**																		<0.10	
TP05NAT_0.5-1.8	**21/01/2022**																		<0.10	
TP06FILL_0.0-0.2	**21/01/2022**																		<0.10	
TP07FILL_0.0-0.2	**21/01/2022**																		<0.10	
TP10FILL_0.0-0.2	**21/01/2022**																		<0.10	
TP10FILL_0.2-0.7	**21/01/2022**																		<0.10	
TP10NAT_0.7-1.0	**21/01/2022**																		<0.10	
TP11FILL_0.0-0.3	**21/01/2022**																		<0.10	
TP12FILL_0.0-0.3	**21/01/2022**																		<0.10	
TP19FILL_0.0-0.3	**21/01/2022**																		<0.10	
TP19FILL_0.0-0.3_BR	**21/01/2022**																		<0.10	
TP20FILL_0.0-0.3	**21/01/2022**																		<0.10	
TP21FILL_0.0-0.2	**21/01/2022**																		<0.10	
TP22FILL_0.0-0.2	**21/01/2022**																		<0.10	
TP23-fill-0.1	**21/12/2021**																		<0.1	
TP23-fill-0.1	**21/12/2021**																		<0.1	
TP23-natural-0.4	**21/12/2021**																		<0.1	
TP24-fill-0.1	**21/12/2021**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<5
TP24-natural-0.4	**21/12/2021**																		<0.1	
TP25-fill-0.1	**21/12/2021**																		<0.1	
TP25-fill-0.1	**21/12/2021**																		<0.1	
TP26-fill-0.1	**21/12/2021**																		<0.1	
TP26-natural-0.4	**21/12/2021**																		<0.1	
TP27-fill-0.1	**21/12/2021**																		<0.1	
TP27-fill-0.1	**21/12/2021**																		<0.1	
TP27-natural-0.4	**21/12/2021**																		<0.1	
TP28FILL_0.0-0.3	**21/01/2022**																		<0.10	
TP29FILL_0.0-0.3	**21/01/2022**																		<0.10	
TP30FILL_0.0-0.2	**21/01/2022**																		<0.10	
TP31FILL_0.0-0.3	**21/01/2022**																		<0.10	
TP32FILL_0.0-0.3	**21/01/2022**																		<0.10	
TP33FILL_0.0-0.2	**21/01/2022**																		<0.10	
TP34FILL_0.0-0.3	**21/01/2022**																		<0.10	
TP34NAT_0.3-1.0	**21/01/2022**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<5.0
TP35-Fill-0.1	**1/02/2022**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	
TP36-BR3-0.2	**21/12/2021**																		<0.10	
TP36-fill-0.2	**21/12/2021**																		<0.10	
TP36-natural-0.3	**21/12/2021**																		<0.10	
TP37-fill-0.3	**21/12/2021**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<5.0
TP37-natural-0.4	**21/12/2021**																		<0.10	
TP38-fill-0.3	**21/12/2021**																		<0.10	
TP39-BR1-0.5	**20/12/2021**																		<0.10	
TP39-fill-0.5	**20/12/2021**																		<0.10	
TP39-fill-0.5	**20/12/2021**																		<0.10	
TP40-fill-0.5	**20/12/2021**																		<0.10	

		Chlorinated Hydrocarbons													Halogenated Benzenes					Herbicides
		1,1,2-trichloroethane	1,1-dichloroethene	1,2-dichloroethane	Bromochloromethane	Carbon tetrachloride	Chloroform	cis-1,2-dichloroethene	Dichloromethane	Hexachlorobutadiene	Trichloroethene	Tetrachloroethene	trans-1,2-dichloroethene	Vinyl chloride	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	Dinoseb
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TP41-fill-0.5	20/12/2021																		<0.10	
TP41-fill-0.5	20/12/2021																		<0.10	
TP42-fill-0.5	20/12/2021																		<0.10	
TP43-fill-0.2	20/12/2021																		<0.10	
TP43-fill-0.2	20/12/2021																		<0.10	
TP43-natural-0.3	20/12/2021																		<0.10	
TP44-fill-0.3	21/12/2021																		<0.10	
TP44-natural-0.4	21/12/2021																		<0.10	
TP45-fill-0.3	21/12/2021																		<0.10	
TP46-fill-0.3	21/12/2021																		<0.10	
TP46-natural-0.4	21/12/2021																		<0.10	
TP47-fill-0.1	21/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<5
TP47-natural-0.3	21/12/2021																		<0.1	
TP48-fill-0.1	21/12/2021																		<0.1	
TP48-natural-0.3	21/12/2021																		<0.1	
TP49-fill-0.1	21/12/2021																		<0.1	
TP49-fill-0.1	21/12/2021																		<0.1	
TP50-fill-0.2	21/12/2021																		<0.1	
TP50-fill-0.2	21/12/2021																		<0.1	
TP50-natural-0.4	21/12/2021																		<0.1	
TP51-fill-0.9	20/12/2021	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<5.0
TP51-natural-1.0	20/12/2021																		<0.10	
TP52-fill-0.3	21/12/2021																		<0.10	
TP52-fill-0.3	21/12/2021																		<0.10	
TP52-natural-0.4	21/12/2021																		<0.10	
TP53-fill-0.1	21/12/2021																		<0.1	
TP54-BR2-0.1	20/12/2021																		<0.10	
TP54-fill-0.1	20/12/2021																		<0.10	
TP54-fill-0.1	20/12/2021																		<0.10	
TP54-fill-0.2	20/12/2021																		<0.10	
TP55-fill-0.1	20/12/2021																		<0.10	
TP56-fill-0.4	20/12/2021																		<0.10	
TP56-fill-0.4	20/12/2021																		<0.10	
TP56-natural-0.5	20/12/2021																		<0.10	
TP57-fill-0.1	20/12/2021																		<0.10	
TP57-natural-0.2	20/12/2021																		<0.10	
TP58-fill-0.1	20/12/2021																		<0.10	
TP58-fill-0.1	20/12/2021																		<0.10	
TP59-fill-0.1	21/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<5
TP59-natural-0.2	21/12/2021																		<0.1	
TP60-fill-0.1	21/12/2021																		<0.1	
TP60-fill-0.1	21/12/2021																		<0.1	
TP61-fill-0.2	21/12/2021																		<0.1	
TP61-natural-0.3	21/12/2021																		<0.1	
TP62-fill-0.2	21/12/2021																		<0.1	
TP62-fill-0.2	21/12/2021																		<0.1	
TP62-natural-0.3	21/12/2021																		<0.1	
TP63-fill-0.1	21/12/2021																		<0.1	
TP64-fill-0.2	21/12/2021																		<0.1	
TP64-fill-0.2	21/12/2021																		<0.1	
TP64-natural-0.3	21/12/2021																		<0.1	
TP65-fill-0.1	21/12/2021	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<5
TP65-natural-0.25	21/12/2021																		<0.1	
TP66-fill-0.1	21/12/2021																		<0.1	
TP66-fill-0.1	21/12/2021																		<0.1	
TP67-fill-0.1	21/12/2021																		<0.1	
TP67-natural-0.2	21/12/2021																		<0.1	
TP68-fill-0.1	21/12/2021																		<0.1	
TP68-fill-0.1	21/12/2021																		<0.1	
TP68-natural-0.3	21/12/2021																		<0.1	
TP69-fill-0.1	21/12/2021																		<0.1	
TP70-fill-0.2	21/12/2021																		<0.1	

		Chlorinated Hydrocarbons													Halogenated Benzenes					Herbicides
		1,1,2-trichloroethane	1,1-dichloroethene	1,2-dichloroethane	Bromochloromethane	Carbon tetrachloride	Chloroform	cis-1,2-dichloroethene	Dichloromethane	Hexachlorobutadiene	Trichloroethene	Tetrachloroethene	trans-1,2-dichloroethene	Vinyl chloride	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	Dinoseb
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TP70-fill-0.2	**21/12/2021**																		<0.1	
TP70-natural-0.4	**21/12/2021**																		<0.1	
TP71-fill-0.1	**21/12/2021**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<5
TP71-natural-0.3	**21/12/2021**																		<0.1	
TP72-fill-0.2	**21/12/2021**																		<0.1	
TP72-fill-0.2	**21/12/2021**																		<0.1	
TP73-fill-0.1	**21/12/2021**																		<0.1	
TP73-natural-0.2	**21/12/2021**																		<0.1	
TP74-fill-0.1	**21/12/2021**																		<0.1	
TP74-fill-0.1	**21/12/2021**																		<0.1	
TP74-natural-0.1	**21/12/2021**																		<0.1	
TP75-fill-0.1	**21/12/2021**																		<0.1	
TP75-natural-0.3	**21/12/2021**																		<0.1	
TP76-BR1	**21/12/2021**																		<0.10	
TP76-fill-0.3	**21/12/2021**																		<0.10	
TP76-fill-0.3	**21/12/2021**																		<0.10	
TP77-fill-0.5	**21/12/2021**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<5.0
TP77-natural-0.6	**21/12/2021**																		<0.10	
TP78-fill-0.3	**21/12/2021**																		<0.10	
TP78-fill-0.3	**21/12/2021**																		<0.10	
TP79-fill-0.2	**21/12/2021**																		<0.10	
TP79-natural-0.3	**21/12/2021**																		<0.10	
TP80-fill-0.2	**21/12/2021**																		<0.10	
TP80-fill-0.2	**21/12/2021**																		<0.10	
TP80-natural-0.3	**21/12/2021**																		<0.10	
TP81-fill-0.2	**21/12/2021**																		<0.10	
TP80-natural-0.3	**21/12/2021**																		<0.10	
TP81-fill-0.2	**21/12/2021**																		<0.10	
TP82-fill-0.2	**21/12/2021**																		<0.10	
TP82-fill-0.2	**21/12/2021**																		<0.10	
TP82-fill-0.3	**21/12/2021**																		<0.10	
TP83-fill-0.3	**21/12/2021**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<5.0
TP83-natural-0.4	**21/12/2021**																		<0.10	
TP84-fill-0.2	**21/12/2021**																		<0.10	
TP84-fill-0.2	**21/12/2021**																		<0.10	
TP85-fill-0.3	**21/12/2021**																		<0.10	
TP85-natural-0.4	**21/12/2021**																		<0.10	
TP86-BR2-0.3	**21/12/2021**																		<0.10	
TP86-fill-0.3	**21/12/2021**																		<0.10	
TP86-fill-0.3	**21/12/2021**																		<0.10	
TP86-natural-0.4	**21/12/2021**																		<0.10	
TP87-fill-0.3	**21/12/2021**																		<0.10	
TP92-fill-0.4	**21/12/2021**																		<0.10	
TP92-fill-0.4	**21/12/2021**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<5.0
TP92-natural-0.5	**21/12/2021**																		<0.10	
TP97-BR	**21/01/2022**																		<0.10	
TP97-fill	**21/01/2022**																		<0.10	
TP97-nat	**21/01/2022**																		<0.10	
TP98-fill	**21/01/2022**																		<0.10	
TP98-nat	**21/01/2022**																		<0.10	
TP99-fill	**21/01/2022**																		<0.10	
TP100-fill	**21/01/2022**																		<0.10	
TP100-fill	**21/01/2022**																		<0.10	
TP100-nat	**21/01/2022**																		<0.10	
TP105-fill	**21/01/2022**																		<0.10	
TP106-fill	**21/01/2022**																		<0.10	
TP106-fill	**21/01/2022**																		<0.10	
TP106-nat	**21/01/2022**																		<0.10	
TP107-fill	**21/01/2022**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<5.0
TP107-nat	**21/01/2022**																		<0.10	
TP108-fill	**21/01/2022**																		<0.10	
TP108-fill	**21/01/2022**																		<0.10	
TP110-fill	**21/01/2022**																		<0.10	
TP110-nat	**21/01/2022**																		<0.10	

		Chlorinated Hydrocarbons													Halogenated Benzenes					Herbicides
		1,1,2-trichloroethane	1,1-dichloroethene	1,2-dichloroethane	Bromochloromethane	Carbon tetrachloride	Chloroform	cis-1,2-dichloroethene	Dichloromethane	Hexachlorobutadiene	Trichloroethene	Tetrachloroethene	trans-1,2-dichloroethene	Vinyl chloride	1,2,4-trichlorobenzene	1,2-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	Dinoseb
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TP111-fill	**21/01/2022**																		<0.10	
TP112-fill	**21/01/2022**																		<0.10	
TP112-fill	**21/01/2022**																		<0.10	
TP112-nat	**21/01/2022**																		<0.10	
TP113-fill	**21/01/2022**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<5.0
TP113-nat	**21/01/2022**																		<0.10	
TP114-BR2	**21/01/2022**																		<0.10	
TP114-fill	**21/01/2022**																		<0.10	
TP114-fill	**21/01/2022**																		<0.10	
TP115-fill	**21/01/2022**																		<0.10	
TP115-nat	**21/01/2022**																		<0.10	
TP116-fill	**21/01/2022**																		<0.10	
TP116-fill	**21/01/2022**																		<0.10	
TP116-nat	**21/01/2022**																		<0.10	
TP117-BR2	**21/01/2022**																		<0.10	
TP117-fill	**21/01/2022**																		<0.10	
TP118-fill	**21/01/2022**																		<0.10	
TP118-nat	**21/01/2022**																		<0.10	
TP119-BR	**21/01/2022**																		<0.10	
TP119-fill	**21/01/2022**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<5.0
TP119-nat	**21/01/2022**																		<0.10	
TP120-fill	**21/01/2022**																		<0.10	
TP122-fill	**21/01/2022**																		<0.10	
TP122-nat	**21/01/2022**																		<0.10	
TP123-fill	**21/01/2022**																		<0.10	
TP124-fill	**21/01/2022**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<5.0
TP124-nat	**21/01/2022**																		<0.10	
TP125-fill	**21/01/2022**																		<0.10	
TP126-fill	**21/01/2022**																		<0.10	
TP126-nat	**21/01/2022**																		<0.10	
TP127-fill	**21/01/2022**																		<0.10	
TP127-nat	**21/01/2022**																		<0.10	
TP128-fill	**21/01/2022**																		<0.10	
TP129-fill	**21/01/2022**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<5.0
TP129-nat	**21/01/2022**																		<0.10	
TP130-fill	**21/01/2022**																		<0.10	

Statistics

Number of Results	**17**	**17**	**17**	**17**	**17**	**17**	**17**	**17**	**17**	**17**	**17**	**17**	**17**	**17**	**17**	**17**	**17**	**213**	**16**
Number of Detects	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Minimum Concentration	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.1**	**<5**
Minimum Detect	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
Maximum Concentration	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.1**	**<5**
Maximum Detect	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
Average Concentration *	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.05**	**2.5**
Median Concentration *	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.05**	**2.5**
Standard Deviation *	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
95% UCL (Student's-t) *	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.05**	**2.5**
% of Detects	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
% of Non-Detects	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

2013, NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay
2013, NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand
2013, NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Silt
2013, NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil
2013, NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil

		Perfluoroalkane Carboxylic Acids											Perfluoroalkane Sulfonic Acids					Inorganics	MAH	
		Perfluorobutanoic acid (PFBA)	Perfluorohexanoic acid (PFHxA)	Perfluoropentanoic acid (PFPeA)	Perfluoroheptanoic acid (PFHpA)	Perfluorooctanoic acid (PFOA)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorononanoic acid (PFNA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Moisture Content	Monocylic aromatic hydrocarbons EPAVic	Styrene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%	mg/kg	mg/kg
EQL		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005		1	0.5
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay																				
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																				
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Silt																				
NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind																				
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil																				
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																				
Field ID	**Date**																			
21.1994.BR1	**21/12/2021**																	20		
21.1994.BR2	**21/12/2021**																	24.2		
21.1994.TP47-BR	**21/12/2021**																	14.6		
TP01FILL_0.0-0.3	**21/01/2022**																	18.4		
TP02FILL_0.0-0.2	**21/01/2022**																	19.0		
TP03FILL_0.0-0.3	**21/01/2022**																	24.3		
TP03NAT_0.3-1.3	**21/01/2022**																	20.1		
TP04FILL_0.0-0.2	**21/01/2022**																	19.0		
TP05FILL_0.0-0.5	**21/01/2022**																	13.1		
TP05NAT_0.5-1.8	**21/01/2022**																	19.6		
TP06FILL_0.0-0.2	**21/01/2022**																	21.4		
TP07FILL_0.0-0.2	**21/01/2022**																	19.2		
TP10FILL_0.0-0.2	**21/01/2022**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	19.7		
TP10FILL_0.2-0.7	**21/01/2022**																	17.7		
TP10NAT_0.7-1.0	**21/01/2022**																	14.3		
TP11FILL_0.0-0.3	**21/01/2022**																	32.4		
TP12FILL_0.0-0.3	**21/01/2022**																	33.4		
TP19FILL_0.0-0.3	**21/01/2022**																	20.7		
TP19FILL_0.0-0.3_BR	**21/01/2022**																	20.4		
TP20FILL_0.0-0.3	**21/01/2022**																	22.7		
TP21FILL_0.0-0.2	**21/01/2022**																	19.8		
TP22FILL_0.0-0.2	**21/01/2022**																	15.8		
TP23-fill-0.1	**21/12/2021**																	21.5		
TP23-fill-0.1	**21/12/2021**																	18.9		
TP23-natural-0.4	**21/12/2021**																	22.5		
TP24-fill-0.1	**21/12/2021**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	23.3	<1	<0.5
TP24-natural-0.4	**21/12/2021**																	18.8		
TP25-fill-0.1	**21/12/2021**																	19.4		
TP25-fill-0.1	**21/12/2021**																	21.8		
TP26-fill-0.1	**21/12/2021**																	23.9		
TP26-natural-0.4	**21/12/2021**																	20.9		
TP27-fill-0.1	**21/12/2021**																	18		
TP27-fill-0.1	**21/12/2021**																	19.1		
TP27-natural-0.4	**21/12/2021**																	19.9		
TP28FILL_0.0-0.3	**21/01/2022**																	19.8		
TP29FILL_0.0-0.3	**21/01/2022**																	19.1		
TP30FILL_0.0-0.2	**21/01/2022**																	21.6		
TP31FILL_0.0-0.3	**21/01/2022**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	35.6		
TP32FILL_0.0-0.3	**21/01/2022**																	15.8		
TP33FILL_0.0-0.2	**21/01/2022**																	21.2		
TP34FILL_0.0-0.3	**21/01/2022**																	23.7		
TP34NAT_0.3-1.0	**21/01/2022**																	14.5	<1.0	<0.50
TP35-Fill-0.1	**1/02/2022**																	24.5	<1.0	<0.50
TP36-BR3-0.2	**21/12/2021**																	20.0		
TP36-fill-0.2	**21/12/2021**																	20.4		
TP36-natural-0.3	**21/12/2021**																	21.5		
TP37-fill-0.3	**21/12/2021**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	16.7	<1.0	<0.50
TP37-natural-0.4	**21/12/2021**																	19.3		
TP38-fill-0.3	**21/12/2021**																	17.3		
TP39-BR1-0.5	**20/12/2021**																	14.6		
TP39-fill-0.5	**20/12/2021**																	15.2		
TP39-fill-0.5	**20/12/2021**																	22.5		
TP40-fill-0.5	**20/12/2021**																	24.2		

		Perfluoroalkane Carboxylic Acids											Perfluoroalkane Sulfonic Acids					Inorganics	MAH	
		Perfluorobutanoic acid (PFBA)	Perfluorohexanoic acid (PFHxA)	Perfluoropentanoic acid (PFPeA)	Perfluoroheptanoic acid (PFHpA)	Perfluorooctanoic acid (PFOA)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorononanoic acid (PFNA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Moisture Content	Monocylic aromatic hydrocarbons EPAVic	Styrene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%	mg/kg	mg/kg
TP41-fill-0.5	20/12/2021																	24.2		
TP41-fill-0.5	20/12/2021																	23.4		
TP42-fill-0.5	20/12/2021																	64.4		
TP43-fill-0.2	20/12/2021																	35.2		
TP43-fill-0.2	20/12/2021																	24.1		
TP43-natural-0.3	20/12/2021																	20.4		
TP44-fill-0.3	21/12/2021																	15.4		
TP44-natural-0.4	21/12/2021																	12.0		
TP45-fill-0.3	21/12/2021																	19.5		
TP46-fill-0.3	21/12/2021																	16.3		
TP46-natural-0.4	21/12/2021																	16.2		
TP47-fill-0.1	21/12/2021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	16	<1	<0.5
TP47-natural-0.3	21/12/2021																	21.3		
TP48-fill-0.1	21/12/2021																	22.2		
TP48-natural-0.3	21/12/2021																	23		
TP49-fill-0.1	21/12/2021																	13.9		
TP49-fill-0.1	21/12/2021																	15.5		
TP50-fill-0.2	21/12/2021																	21.3		
TP50-fill-0.2	21/12/2021																	18		
TP50-natural-0.4	21/12/2021																	21.5		
TP51-fill-0.9	20/12/2021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	6.3	<1.0	<0.50
TP51-natural-1.0	20/12/2021																	19.7		
TP52-fill-0.3	21/12/2021																	18.6		
TP52-fill-0.3	21/12/2021																	18.6		
TP52-natural-0.4	21/12/2021																	18.2		
TP53-fill-0.1	21/12/2021																	17.2		
TP54-BR2-0.1	20/12/2021																	16.3		
TP54-fill-0.1	20/12/2021																	15.7		
TP54-fill-0.1	20/12/2021																	15.7		
TP54-fill-0.2	20/12/2021																	19.0		
TP55-fill-0.1	20/12/2021																	15.3		
TP56-fill-0.4	20/12/2021																	24.1		
TP56-fill-0.4	20/12/2021																	22.5		
TP56-natural-0.5	20/12/2021																	18.6		
TP57-fill-0.1	20/12/2021																	38.0		
TP57-natural-0.2	20/12/2021																	17.3		
TP58-fill-0.1	20/12/2021																	29.5		
TP58-fill-0.1	20/12/2021																	23.8		
TP59-fill-0.1	21/12/2021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	20.5	<1	<0.5
TP59-natural-0.2	21/12/2021																	22.7		
TP60-fill-0.1	21/12/2021																	16.2		
TP60-fill-0.1	21/12/2021																	17.4		
TP61-fill-0.2	21/12/2021																	18.5		
TP61-natural-0.3	21/12/2021																	19.1		
TP62-fill-0.2	21/12/2021																	18.1		
TP62-fill-0.2	21/12/2021																	16.7		
TP62-natural-0.3	21/12/2021																	18.5		
TP63-fill-0.1	21/12/2021																	19.3		
TP64-fill-0.2	21/12/2021																	15.3		
TP64-fill-0.2	21/12/2021																	17.4		
TP64-natural-0.3	21/12/2021																	17.2		
TP65-fill-0.1	21/12/2021																	20.3	<1	<0.5
TP65-natural-0.25	21/12/2021																	20.5		
TP66-fill-0.1	21/12/2021																	21.3		
TP66-fill-0.1	21/12/2021																	19.5		
TP67-fill-0.1	21/12/2021																	22.2		
TP67-natural-0.2	21/12/2021																	18.5		
TP68-fill-0.1	21/12/2021																	19.2		
TP68-fill-0.1	21/12/2021																	18.1		
TP68-natural-0.3	21/12/2021																	19.6		
TP69-fill-0.1	21/12/2021																	19.6		
TP70-fill-0.2	21/12/2021																	16.2		

		Perfluoroalkane Carboxylic Acids											Perfluoroalkane Sulfonic Acids					Inorganics	MAH	
		Perfluorobutanoic acid (PFBA)	Perfluorohexanoic acid (PFHxA)	Perfluoropentanoic acid (PFPeA)	Perfluoroheptanoic acid (PFHpA)	Perfluorooctanoic acid (PFOA)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorononanoic acid (PFNA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Moisture Content	Monocylic aromatic hydrocarbons EPAVic	Styrene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%	mg/kg	mg/kg
TP70-fill-0.2	**21/12/2021**																	16.8		
TP70-natural-0.4	**21/12/2021**																	18.4		
TP71-fill-0.1	**21/12/2021**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	18.6	<1	<0.5
TP71-natural-0.3	**21/12/2021**																	20.7		
TP72-fill-0.2	**21/12/2021**																	17.3		
TP72-fill-0.2	**21/12/2021**																	23.5		
TP73-fill-0.1	**21/12/2021**																	18.6		
TP73-natural-0.2	**21/12/2021**																	19.5		
TP74-fill-0.1	**21/12/2021**																	18.7		
TP74-fill-0.1	**21/12/2021**																	18.1		
TP74-natural-0.1	**21/12/2021**																	18		
TP75-fill-0.1	**21/12/2021**																	19.9		
TP75-natural-0.3	**21/12/2021**																	20.4		
TP76-BR1	**21/12/2021**																	20.6		
TP76-fill-0.3	**21/12/2021**																	24.6		
TP76-fill-0.3	**21/12/2021**																	23.8		
TP77-fill-0.5	**21/12/2021**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	19.8	<1.0	<0.50
TP77-natural-0.6	**21/12/2021**																	18.1		
TP78-fill-0.3	**21/12/2021**																	14.6		
TP78-fill-0.3	**21/12/2021**																	13.7		
TP79-fill-0.2	**21/12/2021**																	17.5		
TP79-natural-0.3	**21/12/2021**																	19.7		
TP80-fill-0.2	**21/12/2021**																	25.1		
TP80-fill-0.2	**21/12/2021**																	16.3		
TP80-natural-0.3	**21/12/2021**																	21.7		
TP81-fill-0.2	**21/12/2021**																	19.8		
TP82-fill-0.2	**21/12/2021**																	20.3		
TP82-fill-0.2	**21/12/2021**																	22.3		
TP82-fill-0.3	**21/12/2021**																	22.8		
TP83-fill-0.3	**21/12/2021**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	19.4	<1.0	<0.50
TP83-natural-0.4	**21/12/2021**																	18.0		
TP84-fill-0.2	**21/12/2021**																	17.6		
TP84-fill-0.2	**21/12/2021**																	17.4		
TP85-fill-0.3	**21/12/2021**																	19.0		
TP85-natural-0.4	**21/12/2021**																	22.3		
TP86-BR2-0.3	**21/12/2021**																	19.8		
TP86-fill-0.3	**21/12/2021**																	20.1		
TP86-fill-0.3	**21/12/2021**																	20.4		
TP86-natural-0.4	**21/12/2021**																	20.6		
TP87-fill-0.3	**21/12/2021**																	18.9		
TP92-fill-0.4	**21/12/2021**																	20.7		
TP92-fill-0.4	**21/12/2021**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	21.2	<1.0	<0.50
TP92-natural-0.5	**21/12/2021**																	19.0		
TP97-BR	**21/01/2022**																	20.5		
TP97-fill	**21/01/2022**																	19.2		
TP97-nat	**21/01/2022**																	21.3		
TP98-fill	**21/01/2022**																	25.6		
TP98-nat	**21/01/2022**																	32.4		
TP99-fill	**21/01/2022**																	22.0		
TP100-fill	**21/01/2022**																	21.9		
TP100-fill	**21/01/2022**																	21.8		
TP100-nat	**21/01/2022**																	22.5		
TP105-fill	**21/01/2022**																	20.8		
TP106-fill	**21/01/2022**																	18.1		
TP106-fill	**21/01/2022**																	15.9		
TP106-nat	**21/01/2022**																	12.1		
TP107-fill	**21/01/2022**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	17.6	<1.0	<0.50
TP107-nat	**21/01/2022**																	13.7		
TP108-fill	**21/01/2022**																	10.3		
TP108-fill	**21/01/2022**																	16.4		
TP110-fill	**21/01/2022**																	22.4		
TP110-nat	**21/01/2022**																	21.6		

		Perfluoroalkane Carboxylic Acids											Perfluoroalkane Sulfonic Acids					Inorganics	MAH	
		Perfluorobutanoic acid (PFBA)	Perfluorohexanoic acid (PFHxA)	Perfluoropentanoic acid (PFPeA)	Perfluoroheptanoic acid (PFHpA)	Perfluorooctanoic acid (PFOA)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorononanoic acid (PFNA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Moisture Content	Monocylic aromatic hydrocarbons EPAVic	Styrene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%	mg/kg	mg/kg
TP111-fill	**21/01/2022**																	20.0		
TP112-fill	**21/01/2022**																	17.8		
TP112-fill	**21/01/2022**																	18.1		
TP112-nat	**21/01/2022**																	18.7		
TP113-fill	**21/01/2022**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	19.0	<1.0	<0.50
TP113-nat	**21/01/2022**																	13.9		
TP114-BR2	**21/01/2022**																	20.7		
TP114-fill	**21/01/2022**																	20.4		
TP114-fill	**21/01/2022**																	17.9		
TP115-fill	**21/01/2022**																	18.8		
TP115-nat	**21/01/2022**																	13.8		
TP116-fill	**21/01/2022**																	19.9		
TP116-fill	**21/01/2022**																	20.5		
TP116-nat	**21/01/2022**																	14.9		
TP117-BR2	**21/01/2022**																	22.1		
TP117-fill	**21/01/2022**																	22.4		
TP118-fill	**21/01/2022**																	20.2		
TP118-nat	**21/01/2022**																	17.3		
TP119-BR	**21/01/2022**																	23.1		
TP119-fill	**21/01/2022**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	21.9	<1.0	<0.50
TP119-nat	**21/01/2022**																	20.9		
TP120-fill	**21/01/2022**																	24.9		
TP122-fill	**21/01/2022**																	19.8		
TP122-nat	**21/01/2022**																	16.2		
TP123-fill	**21/01/2022**																	16.9		
TP124-fill	**21/01/2022**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	27.9	<1.0	<0.50
TP124-nat	**21/01/2022**																	21.0		
TP125-fill	**21/01/2022**																	21.0		
TP126-fill	**21/01/2022**																	20.6		
TP126-nat	**21/01/2022**																	20.3		
TP127-fill	**21/01/2022**																	16.7		
TP127-nat	**21/01/2022**																	14.7		
TP128-fill	**21/01/2022**																	18.9		
TP129-fill	**21/01/2022**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	19.6	<1.0	<0.50
TP129-nat	**21/01/2022**																	19.4		
TP130-fill	**21/01/2022**																	22.6		

Statistics

Number of Results	**16**	**16**	**16**	**16**	**16**	**16**	**16**	**16**	**16**	**16**	**16**	**16**	**16**	**16**	**16**	**16**	**213**	**17**	**17**
Number of Detects	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**213**	**0**	**0**
Minimum Concentration	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**6.3**	**<1**	**<0.5**
Minimum Detect	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**6.3**	**ND**	**ND**
Maximum Concentration	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**64.4**	**<1**	**<0.5**
Maximum Detect	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**64.4**	**ND**	**ND**
Average Concentration *	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**20**	**0.5**	**0.25**
Median Concentration *	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**19.6**	**0.5**	**0.25**
Standard Deviation *	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**5**	**0**	**0**
95% UCL (Student's-t) *	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**20.56**	**0.5**	**0.25**
% of Detects	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**100**	**0**	**0**
% of Non-Detects	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**0**	**100**	**100**

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

2013, NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay
2013, NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand
2013, NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Silt
2013, NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil
2013, NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil

		Metals								Organochlorine Pesticides										
		Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	4,4-DDE	a-BHC	Aldrin	b-BHC	Chlordane (cis)	Chlordane (trans)	d-BHC	DDD	DDT	Dieldrin	Endosulfan I
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		5	0.3	5	5	10	0.2	10	5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay																				
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																				
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Silt																				
NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind		160																640		
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil																				
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil		3,000	900		240,000	1,500	730	6,000	400,000											
Field ID	**Date**																			
21.1994.BR1	**21/12/2021**	17.8	<0.3	25.6	10.8	<10	<0.2	<10	23.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
21.1994.BR2	**21/12/2021**	5.5	<0.3	10.8	9.4	<10	<0.2	<10	13.7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
21.1994.TP47-BR	**21/12/2021**	35.6	<0.3	39.7	13.2	31	<0.2	<10	34.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP01FILL_0.0-0.3	**21/01/2022**	14.8	<0.30	15.2	10.3	12.6	<0.20	<10.0	28.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP02FILL_0.0-0.2	**21/01/2022**	12.5	<0.30	17.0	28.0	20.7	<0.20	10.4	47.7	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP03FILL_0.0-0.3	**21/01/2022**	17.8	<0.30	24.0	40.4	29.7	<0.20	<10.0	97.2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP03NAT_0.3-1.3	**21/01/2022**	27.4	<0.30	7.9	19.4	11.1	<0.20	<10.0	<5.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP04FILL_0.0-0.2	**21/01/2022**	20.1	<0.30	12.8	20.0	16.9	<0.20	13.6	50.9	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP05FILL_0.0-0.5	**21/01/2022**	16.9	<0.30	6.3	45.9	<10.0	<0.20	<10.0	70.2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP05NAT_0.5-1.8	**21/01/2022**	11.2	<0.30	10.1	38.9	<10.0	<0.20	<10.0	61.4	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP06FILL_0.0-0.2	**21/01/2022**	16.3	<0.30	17.7	22.0	<10.0	<0.20	<10.0	35.2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP07FILL_0.0-0.2	**21/01/2022**	12.3	<0.30	12.7	24.0	<10.0	<0.20	<10.0	33.5	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP10FILL_0.0-0.2	**21/01/2022**	<5.0	<0.30	8.8	31.5	<10.0	<0.20	<10.0	62.9	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP10FILL_0.2-0.7	**21/01/2022**	30.5	<0.30	15.3	31.5	<10.0	<0.20	<10.0	29.4	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP10NAT_0.7-1.0	**21/01/2022**	16.3	<0.30	10.0	31.2	<10.0	<0.20	<10.0	75.7	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP11FILL_0.0-0.3	**21/01/2022**	<5.0	<0.30	<5.0	<5.0	<10.0	<0.20	33.6	55.5	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP12FILL_0.0-0.3	**21/01/2022**	<5.0	<0.30	19.4	142.3	<10.0	<0.20	14.1	581.2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP19FILL_0.0-0.3	**21/01/2022**	15.8	<0.30	12.5	19.8	<10.0	<0.20	<10.0	17.9	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP19FILL_0.0-0.3_BR	**21/01/2022**	15.3	<0.30	13.4	18.5	<10.0	<0.20	<10.0	17.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP20FILL_0.0-0.3	**21/01/2022**	12.4	<0.30	12.2	26.3	10.3	<0.20	<10.0	44.4	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP21FILL_0.0-0.2	**21/01/2022**	19.0	<0.30	15.5	46.1	20.2	<0.20	12.3	59.9	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP22FILL_0.0-0.2	**21/01/2022**	7.1	<0.30	9.1	47.1	11.4	<0.20	15.3	64.6	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP23-fill-0.1	**21/12/2021**	14.8	<0.3	17.7	26.2	19.7	<0.2	16.8	59.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP23-fill-0.1	**21/12/2021**	10.9	<0.3	17	25.6	17.9	<0.2	15.5	59.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP23-natural-0.4	**21/12/2021**	15.2	<0.3	19.7	30.6	11.1	<0.2	18.6	67.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP24-fill-0.1	**21/12/2021**	16.3	<0.3	15.4	18.3	15.9	<0.2	<10	39	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP24-natural-0.4	**21/12/2021**	19.2	<0.3	19	17.4	14.9	<0.2	<10	26.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP25-fill-0.1	**21/12/2021**	9.1	<0.3	13	24.3	11.2	<0.2	11.8	47.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP25-fill-0.1	**21/12/2021**	9.3	<0.3	12.5	25.2	13.4	<0.2	16.6	53.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP26-fill-0.1	**21/12/2021**	16.6	<0.3	12.1	25.1	12.2	<0.2	10.2	46.9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP26-natural-0.4	**21/12/2021**	11.5	<0.3	13.4	18.3	<10	<0.2	<10	30	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP27-fill-0.1	**21/12/2021**	<5	<0.3	20.1	17.1	14	<0.2	15.4	46.7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP27-fill-0.1	**21/12/2021**	<5	<0.3	13.6	12.4	11	<0.2	<10	34.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP27-natural-0.4	**21/12/2021**	14.9	<0.3	16.6	18.5	<10	<0.2	11.5	42.7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP28FILL_0.0-0.3	**21/01/2022**	32.4	<0.30	20.7	24.4	31.9	<0.20	19.2	86.3	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP29FILL_0.0-0.3	**21/01/2022**	19.3	<0.30	18.4	16.2	12.4	<0.20	<10.0	33.6	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP30FILL_0.0-0.2	**21/01/2022**	11.7	<0.30	9.6	29.0	<10.0	<0.20	<10.0	27.8	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP31FILL_0.0-0.3	**21/01/2022**	<5.0	<0.30	<5.0	54.3	<10.0	<0.20	<10.0	369.6	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP32FILL_0.0-0.3	**21/01/2022**	7.4	<0.30	10.2	28.9	<10.0	<0.20	11.4	78.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP33FILL_0.0-0.2	**21/01/2022**	11.2	<0.30	11.2	17.6	12.8	<0.20	<10.0	32.4	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP34FILL_0.0-0.3	**21/01/2022**	14.5	<0.30	15.3	24.0	10.5	<0.20	<10.0	39.4	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP34NAT_0.3-1.0	**21/01/2022**	8.2	<0.30	10.8	35.9	<10.0	<0.20	13.3	79.8	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP35-Fill-0.1	**1/02/2022**	6.5	<0.30	10.2	17.4	<10.0	<0.20	10.5	34.3	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP36-BR3-0.2	**21/12/2021**	18.0	<0.30	12.6	14.9	12.5	<0.20	<10.0	25.3	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP36-fill-0.2	**21/12/2021**	17.5	<0.30	13.7	14.7	16.3	<0.20	<10.0	28.6	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP36-natural-0.3	**21/12/2021**	25.6	<0.30	22.0	17.1	19.0	<0.20	<10.0	31.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP37-fill-0.3	**21/12/2021**	28.0	<0.30	20.0	10.7	16.0	<0.20	<10.0	25.8	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP37-natural-0.4	**21/12/2021**	23.4	<0.30	18.8	15.6	<10.0	<0.20	<10.0	21.2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP38-fill-0.3	**21/12/2021**	16.2	<0.30	11.6	17.8	<10.0	<0.20	<10.0	29.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP39-BR1-0.5	**20/12/2021**	15.3	<0.30	13.6	46.0	72.0	<0.20	<10.0	101.3	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP39-fill-0.5	**20/12/2021**	15.8	<0.30	12.4	38.2	82.5	<0.20	<10.0	133.3	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP39-fill-0.5	**20/12/2021**	8.8	<0.30	12.5	23.0	33.0	<0.20	<10.0	75.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP40-fill-0.5	**20/12/2021**	<5.0	<0.30	9.5	7.7	<10.0	<0.20	<10.0	32.7	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20

		Metals								Organochlorine Pesticides										
		Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	4,4-DDE	a-BHC	Aldrin	b-BHC	Chlordane (cis)	Chlordane (trans)	d-BHC	DDD	DDT	Dieldrin	Endosulfan I
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TP41-fill-0.5	**20/12/2021**	<5.0	<0.30	9.6	212.3	14.8	<0.20	<10.0	529.6	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP41-fill-0.5	**20/12/2021**	<5.0	<0.30	10.3	167.8	20.0	<0.20	<10.0	439.3	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP42-fill-0.5	**20/12/2021**	<5.0	<0.30	9.6	27.0	<10.0	0.37	<10.0	41.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP43-fill-0.2	**20/12/2021**	6.0	<0.30	12.2	23.6	11.1	0.23	<10.0	61.3	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP43-fill-0.2	**20/12/2021**	16.6	<0.30	17.9	19.6	15.0	<0.20	10.5	44.9	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP43-natural-0.3	**20/12/2021**	15.1	<0.30	11.8	37.7	15.7	<0.20	21.9	89.9	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP44-fill-0.3	**21/12/2021**	21.4	<0.30	15.8	12.1	<10.0	<0.20	<10.0	25.9	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP44-natural-0.4	**21/12/2021**	24.9	<0.30	12.3	56.0	13.2	<0.20	20.1	95.6	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP45-fill-0.3	**21/12/2021**	11.2	<0.30	7.1	14.5	<10.0	<0.20	<10.0	30.3	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP46-fill-0.3	**21/12/2021**	22.6	<0.30	14.0	14.2	<10.0	<0.20	<10.0	25.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP46-natural-0.4	**21/12/2021**	28.2	<0.30	16.6	15.9	<10.0	<0.20	<10.0	20.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP47-fill-0.1	**21/12/2021**	8	<0.3	20	29.9	15.4	<0.2	<10	47.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP47-natural-0.3	**21/12/2021**	<5	<0.3	5	14.5	<10	<0.2	<10	7.9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP48-fill-0.1	**21/12/2021**	6.3	<0.3	12.2	16.1	<10	<0.2	<10	40	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP48-natural-0.3	**21/12/2021**	30.1	<0.3	17.8	49.4	13.4	<0.2	10.5	80	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP49-fill-0.1	**21/12/2021**	11	<0.3	10.6	54.9	<10	<0.2	17.1	45.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP49-fill-0.1	**21/12/2021**	13.1	<0.3	18	48	<10	<0.2	12	36.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP50-fill-0.2	**21/12/2021**	8.4	<0.3	13.2	34.4	18.8	<0.2	13.5	51.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP50-fill-0.2	**21/12/2021**	19.1	<0.3	25.6	53	33.4	<0.2	20.4	121.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP50-natural-0.4	**21/12/2021**	9.9	<0.3	5.6	19	<10	<0.2	<10	31.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP51-fill-0.9	**20/12/2021**	6.8	<0.30	12.7	78.2	14.0	<0.20	34.7	65.4	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP51-natural-1.0	**20/12/2021**	20.7	<0.30	13.4	24.9	13.3	<0.20	<10.0	42.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP52-fill-0.3	**21/12/2021**	19.0	<0.30	14.9	13.3	10.3	<0.20	<10.0	17.9	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP52-fill-0.3	**21/12/2021**	21.4	<0.30	15.7	25.9	20.5	<0.20	<10.0	40.2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP52-natural-0.4	**21/12/2021**	8.1	<0.30	7.2	12.2	<10.0	<0.20	<10.0	45.4	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP53-fill-0.1	**21/12/2021**	21.4	<0.3	43.1	13.2	23.7	<0.2	<10	51.9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP54-BR2-0.1	**20/12/2021**	34.8	<0.30	40.0	19.6	78.1	<0.20	11.1	75.9	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP54-fill-0.1	**20/12/2021**	20.8	<0.30	27.2	21.4	28.6	<0.20	13.4	66.5	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP54-fill-0.1	**20/12/2021**	17.3	<0.30	28.8	20.9	23.8	<0.20	11.6	51.4	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP54-fill-0.2	**20/12/2021**	27.2	<0.30	17.5	16.0	14.3	<0.20	<10.0	14.2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP55-fill-0.1	**20/12/2021**	<5.0	<0.30	25.7	21.6	151.1	<0.20	<10.0	194.3	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP56-fill-0.4	**20/12/2021**	<5.0	<0.30	8.8	78.3	<10.0	<0.20	<10.0	107.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP56-fill-0.4	**20/12/2021**	<5.0	<0.30	10.2	57.9	10.6	<0.20	<10.0	84.5	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP56-natural-0.5	**20/12/2021**	12.3	<0.30	<5.0	14.1	<10.0	<0.20	<10.0	<5.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP57-fill-0.1	**20/12/2021**	<5.0	<0.30	8.1	141.6	<10.0	<0.20	<10.0	94.8	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP57-natural-0.2	**20/12/2021**	11.9	<0.30	9.3	26.0	<10.0	<0.20	<10.0	48.4	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP58-fill-0.1	**20/12/2021**	<5.0	<0.30	<5.0	44.5	<10.0	<0.20	<10.0	73.8	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP58-fill-0.1	**20/12/2021**	<5.0	<0.30	<5.0	45.5	<10.0	<0.20	<10.0	113.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP59-fill-0.1	**21/12/2021**	18.9	<0.3	29.7	13.3	10.2	<0.2	<10	26.7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP59-natural-0.2	**21/12/2021**	6.5	<0.3	11.9	12.9	<10	<0.2	<10	6.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP60-fill-0.1	**21/12/2021**	13.7	<0.3	12.9	<5	<10	<0.2	<10	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP60-fill-0.1	**21/12/2021**	22.4	<0.3	39.6	<5	18.3	<0.2	<10	8.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP61-fill-0.2	**21/12/2021**	31.8	<0.3	36.6	9.2	36.7	<0.2	<10	11.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP61-natural-0.3	**21/12/2021**	29	<0.3	41.2	11.2	23.9	<0.2	<10	15.9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP62-fill-0.2	**21/12/2021**	20	<0.3	19.5	12.1	10	<0.2	<10	16.7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP62-fill-0.2	**21/12/2021**	18.4	<0.3	20.6	10.7	16.4	<0.2	<10	14.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP62-natural-0.3	**21/12/2021**	6	<0.3	7.7	20.1	<10	<0.2	<10	35.7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP63-fill-0.1	**21/12/2021**	7.2	<0.3	15.1	11.9	15.4	<0.2	<10	24.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP64-fill-0.2	**21/12/2021**	6.1	<0.3	12.9	13.1	<10	<0.2	<10	19.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP64-fill-0.2	**21/12/2021**	18.2	<0.3	18.6	12.5	<10	<0.2	<10	22.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP64-natural-0.3	**21/12/2021**	14.1	<0.3	10.3	21.6	<10	<0.2	<10	37.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP65-fill-0.1	**21/12/2021**	14.1	<0.3	20.2	14.1	28	<0.2	<10	34.9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP65-natural-0.25	**21/12/2021**	25.8	<0.3	25.3	31.7	21.4	<0.2	13.3	68.9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP66-fill-0.1	**21/12/2021**	24.8	<0.3	30.9	12.7	16.1	<0.2	<10	21.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP66-fill-0.1	**21/12/2021**	12.4	<0.3	21.1	14	14.3	<0.2	<10	25.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP67-fill-0.1	**21/12/2021**	15	<0.3	18.9	19.4	15.8	<0.2	13.5	46.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP67-natural-0.2	**21/12/2021**	18.5	<0.3	17.7	22.8	11.9	<0.2	13	48.7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP68-fill-0.1	**21/12/2021**	26.4	<0.3	23.9	25.1	25.1	<0.2	<10	47.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP68-fill-0.1	**21/12/2021**	15.5	<0.3	14.5	20.5	<10	<0.2	<10	34.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP68-natural-0.3	**21/12/2021**	29.1	<0.3	22.5	29.9	14.6	<0.2	<10	53.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP69-fill-0.1	**21/12/2021**	24	<0.3	24.8	16.3	18	<0.2	<10	29.7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP70-fill-0.2	**21/12/2021**	25.2	<0.3	27.6	6.1	20.8	<0.2	<10	10.7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2

		Metals								Organochlorine Pesticides										
		Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	4,4-DDE	a-BHC	Aldrin	b-BHC	Chlordane (cis)	Chlordane (trans)	d-BHC	DDD	DDT	Dieldrin	Endosulfan I
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TP70-fill-0.2	**21/12/2021**	9.5	<0.3	16.3	8.1	<10	<0.2	<10	5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP70-natural-0.4	**21/12/2021**	18.3	<0.3	31.9	7.4	12.4	<0.2	<10	<5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP71-fill-0.1	**21/12/2021**	25.7	<0.3	22.9	22.7	12.9	<0.2	<10	39.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP71-natural-0.3	**21/12/2021**	<5	<0.3	<5	19.8	<10	<0.2	<10	14.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP72-fill-0.2	**21/12/2021**	25.2	<0.3	49.2	10.3	20.6	<0.2	<10	50.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP72-fill-0.2	**21/12/2021**	10.6	<0.3	15.7	11.9	<10	<0.2	<10	21.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP73-fill-0.1	**21/12/2021**	17.6	<0.3	28.7	27.1	18.2	<0.2	<10	31.9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP73-natural-0.2	**21/12/2021**	15.5	<0.3	20.7	15.8	<10	<0.2	<10	12.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP74-fill-0.1	**21/12/2021**	23.4	<0.3	27.3	56	14.4	<0.2	<10	39.9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP74-fill-0.1	**21/12/2021**	11.8	<0.3	15.3	59.2	<10	<0.2	<10	41.9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP74-natural-0.1	**21/12/2021**	13.9	<0.3	19.4	47.3	<10	<0.2	<10	35.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP75-fill-0.1	**21/12/2021**	15.9	<0.3	13.6	9.4	11.1	<0.2	<10	15.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP75-natural-0.3	**21/12/2021**	14.7	<0.3	10.3	11.8	<10	<0.2	<10	11.7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2
TP76-BR1	**21/12/2021**	8.8	<0.30	10.1	28.6	<10.0	<0.20	<10.0	29.8	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP76-fill-0.3	**21/12/2021**	<5.0	<0.30	9.4	68.3	<10.0	0.21	<10.0	60.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP76-fill-0.3	**21/12/2021**	<5.0	<0.30	11.5	63.3	<10.0	<0.20	<10.0	60.5	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP77-fill-0.5	**21/12/2021**	21.7	<0.30	26.9	43.0	12.7	<0.20	<10.0	56.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP77-natural-0.6	**21/12/2021**	27.4	<0.30	24.3	16.0	<10.0	<0.20	<10.0	18.3	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP78-fill-0.3	**21/12/2021**	26.3	<0.30	21.2	54.1	16.3	<0.20	<10.0	30.7	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP78-fill-0.3	**21/12/2021**	19.5	<0.30	21.0	39.4	11.8	<0.20	<10.0	24.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP79-fill-0.2	**21/12/2021**	22.8	<0.30	18.1	13.7	15.0	<0.20	<10.0	14.2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP79-natural-0.3	**21/12/2021**	42.8	<0.30	20.0	20.0	12.7	<0.20	<10.0	19.4	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP80-fill-0.2	**21/12/2021**	31.5	<0.30	27.6	25.8	23.2	<0.20	<10.0	42.3	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP80-fill-0.2	**21/12/2021**	29.2	<0.30	27.4	21.7	16.6	<0.20	<10.0	29.2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP80-natural-0.3	**21/12/2021**	18.4	<0.30	18.3	27.7	<10.0	<0.20	<10.0	38.7	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP81-fill-0.2	**21/12/2021**	14.8	<0.30	18.5	17.7	17.6	<0.20	<10.0	37.9	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP82-fill-0.2	**21/12/2021**	5.9	<0.30	13.8	48.1	<10.0	<0.20	<10.0	135.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP82-fill-0.2	**21/12/2021**	21.2	<0.30	26.1	40.0	17.8	<0.20	10.0	110.9	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP82-fill-0.3	**21/12/2021**	19.2	<0.30	23.6	46.0	20.7	<0.20	<10.0	136.8	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP83-fill-0.3	**21/12/2021**	23.2	<0.30	22.7	22.3	17.7	<0.20	10.2	49.3	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP83-natural-0.4	**21/12/2021**	8.2	<0.30	7.2	13.4	<10.0	<0.20	<10.0	32.8	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP84-fill-0.2	**21/12/2021**	20.9	<0.30	18.2	34.8	15.9	<0.20	11.9	74.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP84-fill-0.2	**21/12/2021**	17.6	<0.30	18.8	37.0	16.2	<0.20	10.7	86.9	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP85-fill-0.3	**21/12/2021**	33.3	<0.30	32.3	23.6	28.8	<0.20	10.5	47.4	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP85-natural-0.4	**21/12/2021**	29.3	<0.30	20.2	14.4	<10.0	<0.20	<10.0	13.4	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP86-BR2-0.3	**21/12/2021**	35.8	<0.30	39.5	20.2	37.3	<0.20	23.9	60.8	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP86-fill-0.3	**21/12/2021**	30.2	<0.30	35.7	20.8	33.3	<0.20	12.8	43.7	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP86-fill-0.3	**21/12/2021**	21.6	<0.30	28.4	22.1	21.5	<0.20	<10.0	35.7	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP86-natural-0.4	**21/12/2021**	22.8	<0.30	17.6	15.7	16.8	<0.20	<10.0	27.7	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP87-fill-0.3	**21/12/2021**	17.8	<0.30	21.2	35.8	22.9	<0.20	<10.0	89.4	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP92-fill-0.4	**21/12/2021**	12.0	<0.30	18.9	146.4	10.6	<0.20	<10.0	499.2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP92-fill-0.4	**21/12/2021**	17.4	<0.30	17.9	19.2	14.7	<0.20	<10.0	38.6	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP92-natural-0.5	**21/12/2021**	8.0	<0.30	<5.0	14.3	<10.0	<0.20	<10.0	19.5	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP97-BR	**21/01/2022**	5.9	<0.30	18.5	18.4	<10.0	<0.20	<10.0	18.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP97-fill	**21/01/2022**	16.8	<0.30	24.3	13.0	<10.0	<0.20	<10.0	14.2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP97-nat	**21/01/2022**	19.4	<0.30	20.1	11.1	<10.0	<0.20	<10.0	<5.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP98-fill	**21/01/2022**	20.3	<0.30	28.9	14.4	22.6	<0.20	<10.0	30.9	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP98-nat	**21/01/2022**	17.0	<0.30	5.5	19.1	<10.0	<0.20	<10.0	17.6	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP99-fill	**21/01/2022**	22.4	<0.30	13.3	8.2	17.2	<0.20	10.0	18.2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP100-fill	**21/01/2022**	10.5	<0.30	20.6	13.8	20.4	<0.20	<10.0	25.7	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP100-fill	**21/01/2022**	23.7	<0.30	30.2	12.5	18.3	<0.20	<10.0	20.5	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP100-nat	**21/01/2022**	45.4	<0.30	11.7	43.5	22.8	<0.20	26.7	100.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP105-fill	**21/01/2022**	<5.0	<0.30	16.4	17.7	<10.0	<0.20	<10.0	30.2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP106-fill	**21/01/2022**	8.5	<0.30	22.3	18.4	<10.0	<0.20	<10.0	25.8	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP106-fill	**21/01/2022**	10.9	<0.30	19.5	15.5	<10.0	<0.20	<10.0	20.7	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP106-nat	**21/01/2022**	15.5	<0.30	9.4	15.9	<10.0	<0.20	<10.0	19.9	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP107-fill	**21/01/2022**	11.2	<0.30	25.6	11.5	13.2	<0.20	<10.0	15.8	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP107-nat	**21/01/2022**	24.2	<0.30	11.7	24.7	19.7	<0.20	20.3	79.6	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP108-fill	**21/01/2022**	24.6	<0.30	21.1	8.2	23.4	<0.20	<10.0	8.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP108-fill	**21/01/2022**	14.8	<0.30	17.7	<5.0	<10.0	<0.20	<10.0	<5.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP110-fill	**21/01/2022**	9.3	<0.30	15.6	34.1	12.9	<0.20	12.5	71.3	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP110-nat	**21/01/2022**	37.6	<0.30	18.0	84.2	20.2	<0.20	30.1	114.3	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20

		Metals								Organochlorine Pesticides										
		Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	4,4-DDE	a-BHC	Aldrin	b-BHC	Chlordane (cis)	Chlordane (trans)	d-BHC	DDD	DDT	Dieldrin	Endosulfan I
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TP111-fill	**21/01/2022**	7.3	<0.30	17.4	14.9	10.6	<0.20	<10.0	23.4	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP112-fill	**21/01/2022**	8.4	<0.30	16.4	18.7	<10.0	<0.20	<10.0	18.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP112-fill	**21/01/2022**	5.6	<0.30	20.4	15.9	<10.0	<0.20	<10.0	16.2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP112-nat	**21/01/2022**	21.0	<0.30	27.8	13.0	<10.0	<0.20	<10.0	18.5	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP113-fill	**21/01/2022**	<5.0	<0.30	17.8	15.8	<10.0	<0.20	<10.0	19.3	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP113-nat	**21/01/2022**	8.5	<0.30	7.2	8.2	26.6	<0.20	<10.0	<5.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP114-BR2	**21/01/2022**	14.6	<0.30	16.8	12.1	<10.0	<0.20	<10.0	13.9	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP114-fill	**21/01/2022**	10.1	<0.30	31.7	13.9	13.9	<0.20	<10.0	32.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP114-fill	**21/01/2022**	10.1	<0.30	23.8	13.4	<10.0	<0.20	<10.0	17.9	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP115-fill	**21/01/2022**	11.3	<0.30	21.9	14.8	15.8	<0.20	<10.0	24.3	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP115-nat	**21/01/2022**	34.6	<0.30	34.2	13.8	25.8	<0.20	<10.0	30.2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP116-fill	**21/01/2022**	13.5	<0.30	17.9	9.6	22.6	<0.20	<10.0	15.2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP116-fill	**21/01/2022**	19.1	<0.30	28.1	8.8	16.1	<0.20	<10.0	15.2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP116-nat	**21/01/2022**	<5.0	<0.30	7.9	5.1	<10.0	<0.20	<10.0	13.3	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP117-BR2	**21/01/2022**	16.3	<0.30	17.3	29.8	<10.0	<0.20	31.6	54.2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP117-fill	**21/01/2022**	16.5	<0.30	17.9	32.0	17.9	<0.20	34.4	59.4	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP118-fill	**21/01/2022**	19.7	<0.30	18.4	21.1	10.3	<0.20	<10.0	36.8	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP118-nat	**21/01/2022**	21.5	<0.30	10.4	19.7	<10.0	<0.20	<10.0	14.5	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP119-BR	**21/01/2022**	<5.0	<0.30	15.3	19.6	14.4	<0.20	<10.0	55.9	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP119-fill	**21/01/2022**	9.3	<0.30	12.5	15.4	<10.0	<0.20	<10.0	13.3	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP119-nat	**21/01/2022**	<5.0	<0.30	<5.0	8.7	<10.0	<0.20	<10.0	<5.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP120-fill	**21/01/2022**	11.3	<0.30	16.5	<5.0	14.6	<0.20	<10.0	7.6	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP122-fill	**21/01/2022**	<5.0	<0.30	8.2	9.5	<10.0	<0.20	<10.0	7.4	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP122-nat	**21/01/2022**	9.9	<0.30	<5.0	6.3	<10.0	<0.20	<10.0	<5.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP123-fill	**21/01/2022**	6.7	<0.30	9.1	<5.0	<10.0	<0.20	<10.0	<5.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP124-fill	**21/01/2022**	12.3	<0.30	16.5	16.9	14.8	<0.20	11.4	27.7	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP124-nat	**21/01/2022**	10.6	<0.30	17.7	23.5	<10.0	<0.20	<10.0	21.3	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP125-fill	**21/01/2022**	10.1	<0.30	13.3	24.7	<10.0	<0.20	<10.0	42.5	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP126-fill	**21/01/2022**	17.9	<0.30	15.7	27.0	11.3	<0.20	<10.0	42.8	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP126-nat	**21/01/2022**	11.9	<0.30	9.9	28.5	<10.0	<0.20	<10.0	39.4	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP127-fill	**21/01/2022**	15.0	<0.30	19.4	13.7	<10.0	<0.20	<10.0	11.3	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP127-nat	**21/01/2022**	8.4	<0.30	5.4	10.2	<10.0	<0.20	<10.0	<5.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP128-fill	**21/01/2022**	9.9	<0.30	28.1	8.5	<10.0	<0.20	<10.0	12.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP129-fill	**21/01/2022**	32.1	<0.30	26.0	<5.0	16.3	<0.20	<10.0	<5.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP129-nat	**21/01/2022**	16.0	<0.30	8.3	11.0	<10.0	<0.20	<10.0	<5.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
TP130-fill	**21/01/2022**	8.8	<0.30	15.2	6.3	<10.0	<0.20	<10.0	<5.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20

Statistics

Number of Results	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**
Number of Detects	**187**	**0**	**204**	**206**	**119**	**3**	**48**	**199**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Minimum Concentration	**<5**	**<0.3**	**5**	**<5**	**10**	**<0.2**	**10**	**5**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.2**
Minimum Detect	**5.5**	**ND**	**5**	**5.1**	**10**	**0.21**	**10**	**5**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
Maximum Concentration	**45.4**	**<0.3**	**49.2**	**212.3**	**151.1**	**0.37**	**34.7**	**581.2**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.2**
Maximum Detect	**45.4**	**ND**	**49.2**	**212.3**	**151.1**	**0.37**	**34.7**	**581.2**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
Average Concentration *	**15**	**0.15**	**17**	**26**	**14**	**0.1**	**7.5**	**50**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.1**
Median Concentration *	**15.1**	**0.15**	**16.6**	**19.2**	**11.1**	**0.1**	**5**	**33.6**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.1**
Standard Deviation *	**8.9**	**0**	**8.4**	**26**	**14**	**0.022**	**5.7**	**75**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
95% UCL (Student's-t) *	**16.5**	**0.15**	**18.24**	**29.14**	**15.17**	**0.105**	**8.151**	**58.7**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.1**
% of Detects	**88**	**0**	**96**	**97**	**56**	**1**	**23**	**93**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
% of Non-Detects	**12**	**100**	**4**	**3**	**44**	**99**	**77**	**7**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

2013, NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay
2013, NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand
2013, NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Silt
2013, NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil
2013, NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil

											Organophosphorous Pesticides									
		Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Chlorpyrifos	Chlorpyrifos-methyl	Diazinon	Ethoprop	Methyl parathion	Ronnel	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.3	0.3
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay																				
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																				
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Silt																				
NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind																				
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil																				
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil				100				50		2,500	2,000									
Field ID	**Date**																			
21.1994.BR1	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
21.1994.BR2	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
21.1994.TP47-BR	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP01FILL_0.0-0.3	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP02FILL_0.0-0.2	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP03FILL_0.0-0.3	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP03NAT_0.3-1.3	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP04FILL_0.0-0.2	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP05FILL_0.0-0.5	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP05NAT_0.5-1.8	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP06FILL_0.0-0.2	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP07FILL_0.0-0.2	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP10FILL_0.0-0.2	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP10FILL_0.2-0.7	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP10NAT_0.7-1.0	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP11FILL_0.0-0.3	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP12FILL_0.0-0.3	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP19FILL_0.0-0.3	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP19FILL_0.0-0.3_BR	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP20FILL_0.0-0.3	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP21FILL_0.0-0.2	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP22FILL_0.0-0.2	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP23-fill-0.1	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP23-fill-0.1	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP23-natural-0.4	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP24-fill-0.1	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP24-natural-0.4	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP25-fill-0.1	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP25-fill-0.1	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP26-fill-0.1	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP26-natural-0.4	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP27-fill-0.1	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP27-fill-0.1	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP27-natural-0.4	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP28FILL_0.0-0.3	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP29FILL_0.0-0.3	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP30FILL_0.0-0.2	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP31FILL_0.0-0.3	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP32FILL_0.0-0.3	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP33FILL_0.0-0.2	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP34FILL_0.0-0.3	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP34NAT_0.3-1.0	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP35-Fill-0.1	**1/02/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP36-BR3-0.2	**21/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP36-fill-0.2	**21/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP36-natural-0.3	**21/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP37-fill-0.3	**21/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP37-natural-0.4	**21/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP38-fill-0.3	**21/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP39-BR1-0.5	**20/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP39-fill-0.5	**20/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP39-fill-0.5	**20/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP40-fill-0.5	**20/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30

											Organophosphorous Pesticides									
		Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Chlorpyrifos	Chlorpyrifos-methyl	Diazinon	Ethoprop	Methyl parathion	Ronnel	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TP41-fill-0.5	**20/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP41-fill-0.5	**20/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP42-fill-0.5	**20/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP43-fill-0.2	**20/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP43-fill-0.2	**20/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP43-natural-0.3	**20/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP44-fill-0.3	**21/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP44-natural-0.4	**21/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP45-fill-0.3	**21/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP46-fill-0.3	**21/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP46-natural-0.4	**21/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP47-fill-0.1	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP47-natural-0.3	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP48-fill-0.1	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP48-natural-0.3	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP49-fill-0.1	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP49-fill-0.1	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP50-fill-0.2	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP50-fill-0.2	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP50-natural-0.4	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP51-fill-0.9	**20/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP51-natural-1.0	**20/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP52-fill-0.3	**21/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP52-fill-0.3	**21/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP52-natural-0.4	**21/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP53-fill-0.1	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP54-BR2-0.1	**20/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP54-fill-0.1	**20/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP54-fill-0.1	**20/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP54-fill-0.2	**20/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP55-fill-0.1	**20/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP56-fill-0.4	**20/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP56-fill-0.4	**20/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP56-natural-0.5	**20/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP57-fill-0.1	**20/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP57-natural-0.2	**20/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP58-fill-0.1	**20/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP58-fill-0.1	**20/12/2021**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP59-fill-0.1	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP59-natural-0.2	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP60-fill-0.1	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP60-fill-0.1	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP61-fill-0.2	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP61-natural-0.3	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP62-fill-0.2	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP62-fill-0.2	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP62-natural-0.3	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP63-fill-0.1	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP64-fill-0.2	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP64-fill-0.2	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP64-natural-0.3	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP65-fill-0.1	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP65-natural-0.25	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP66-fill-0.1	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP66-fill-0.1	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP67-fill-0.1	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP67-natural-0.2	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP68-fill-0.1	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP68-fill-0.1	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP68-natural-0.3	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP69-fill-0.1	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP70-fill-0.2	**21/12/2021**	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3

											Organophosphorous Pesticides									
		Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Chlorpyrifos	Chlorpyrifos-methyl	Diazinon	Ethoprop	Methyl parathion	Ronnel	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TP70-fill-0.2	21/12/2021	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP70-natural-0.4	21/12/2021	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP71-fill-0.1	21/12/2021	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP71-natural-0.3	21/12/2021	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP72-fill-0.2	21/12/2021	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP72-fill-0.2	21/12/2021	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.45	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP73-fill-0.1	21/12/2021	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP73-natural-0.2	21/12/2021	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP74-fill-0.1	21/12/2021	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP74-fill-0.1	21/12/2021	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP74-natural-0.1	21/12/2021	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP75-fill-0.1	21/12/2021	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP75-natural-0.3	21/12/2021	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.3	<0.3	<0.3	<0.3
TP76-BR1	21/12/2021	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP76-fill-0.3	21/12/2021	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP76-fill-0.3	21/12/2021	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	0.81
TP77-fill-0.5	21/12/2021	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP77-natural-0.6	21/12/2021	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP78-fill-0.3	21/12/2021	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP78-fill-0.3	21/12/2021	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP79-fill-0.2	21/12/2021	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP79-natural-0.3	21/12/2021	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP80-fill-0.2	21/12/2021	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP80-fill-0.2	21/12/2021	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP80-natural-0.3	21/12/2021	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP81-fill-0.2	21/12/2021	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP82-fill-0.2	21/12/2021	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP82-fill-0.2	21/12/2021	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP82-fill-0.3	21/12/2021	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP83-fill-0.3	21/12/2021	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP83-natural-0.4	21/12/2021	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP84-fill-0.2	21/12/2021	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP84-fill-0.2	21/12/2021	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP85-fill-0.3	21/12/2021	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP85-natural-0.4	21/12/2021	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP86-BR2-0.3	21/12/2021	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP86-fill-0.3	21/12/2021	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP86-fill-0.3	21/12/2021	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP86-natural-0.4	21/12/2021	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP87-fill-0.3	21/12/2021	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP92-fill-0.4	21/12/2021	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP92-fill-0.4	21/12/2021	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP92-natural-0.5	21/12/2021	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP97-BR	21/01/2022	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP97-fill	21/01/2022	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP97-nat	21/01/2022	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP98-fill	21/01/2022	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP98-nat	21/01/2022	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP99-fill	21/01/2022	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP100-fill	21/01/2022	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP100-fill	21/01/2022	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP100-nat	21/01/2022	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP105-fill	21/01/2022	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP106-fill	21/01/2022	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP106-fill	21/01/2022	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP106-nat	21/01/2022	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP107-fill	21/01/2022	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP107-nat	21/01/2022	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP108-fill	21/01/2022	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP108-fill	21/01/2022	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP110-fill	21/01/2022	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP110-nat	21/01/2022	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30

											Organophosphorous Pesticides								
		Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	g-BHC (Lindane)	Heptachlor	Heptachlor epoxide	Methoxychlor	Chlorpyrifos	Chlorpyrifos-methyl	Diazinon	Ethoprop	Methyl parathion	Ronnel	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TP111-fill	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP112-fill	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP112-fill	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP112-nat	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP113-fill	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP113-nat	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP114-BR2	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP114-fill	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP114-fill	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP115-fill	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP115-nat	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP116-fill	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP116-fill	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP116-nat	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP117-BR2	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP117-fill	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP118-fill	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP118-nat	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP119-BR	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP119-fill	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	0.39
TP119-nat	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP120-fill	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP122-fill	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP122-nat	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP123-fill	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP124-fill	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP124-nat	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP125-fill	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP126-fill	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP126-nat	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP127-fill	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP127-nat	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP128-fill	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP129-fill	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP129-nat	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30
TP130-fill	**21/01/2022**	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.30	<0.30	<0.30	<0.30

Statistics

Number of Results	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**
Number of Detects	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**
Minimum Concentration	**<0.2**	**<0.1**	**<0.2**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.3**	**<0.3**	**<0.3**	**<0.3**
Minimum Detect	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**0.45**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**0.39**
Maximum Concentration	**<0.2**	**<0.1**	**<0.2**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**0.45**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.3**	**<0.3**	**<0.3**	**0.81**
Maximum Detect	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**0.45**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**0.81**
Average Concentration *	**0.1**	**0.05**	**0.1**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.052**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.15**	**0.15**	**0.15**	**0.15**
Median Concentration *	**0.1**	**0.05**	**0.1**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.15**	**0.15**	**0.15**	**0.15**
Standard Deviation *	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.027**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.048**
95% UCL (Student's-t) *	**0.1**	**0.05**	**0.1**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.055**	**0.05**	**0.05**	**0.05**	**0.05**	**0.05**	**0.15**	**0.15**	**0.15**	**0.16**
% of Detects	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**
% of Non-Detects	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**99**

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

2013, NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay
2013, NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand
2013, NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Silt
2013, NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil
2013, NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil

		PAH												PCBs					
		Benzo(a) pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of positives)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay																				
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																				
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Silt																				
NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind											370									
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil		1.4																		
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																				
Field ID	**Date**																			
21.1994.BR1	**21/12/2021**	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
21.1994.BR2	**21/12/2021**	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
21.1994.TP47-BR	**21/12/2021**	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP01FILL_0.0-0.3	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP02FILL_0.0-0.2	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP03FILL_0.0-0.3	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP03NAT_0.3-1.3	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP04FILL_0.0-0.2	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP05FILL_0.0-0.5	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP05NAT_0.5-1.8	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP06FILL_0.0-0.2	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP07FILL_0.0-0.2	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP10FILL_0.0-0.2	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP10FILL_0.2-0.7	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP10NAT_0.7-1.0	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP11FILL_0.0-0.3	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP12FILL_0.0-0.3	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP19FILL_0.0-0.3	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP19FILL_0.0-0.3_BR	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP20FILL_0.0-0.3	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP21FILL_0.0-0.2	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP22FILL_0.0-0.2	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP23-fill-0.1	**21/12/2021**	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP23-fill-0.1	**21/12/2021**	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP23-natural-0.4	**21/12/2021**	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP24-fill-0.1	**21/12/2021**	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP24-natural-0.4	**21/12/2021**	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP25-fill-0.1	**21/12/2021**	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP25-fill-0.1	**21/12/2021**	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP26-fill-0.1	**21/12/2021**	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP26-natural-0.4	**21/12/2021**	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP27-fill-0.1	**21/12/2021**	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP27-fill-0.1	**21/12/2021**	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP27-natural-0.4	**21/12/2021**	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP28FILL_0.0-0.3	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP29FILL_0.0-0.3	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP30FILL_0.0-0.2	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP31FILL_0.0-0.3	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP32FILL_0.0-0.3	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP33FILL_0.0-0.2	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP34FILL_0.0-0.3	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP34NAT_0.3-1.0	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP35-Fill-0.1	**1/02/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP36-BR3-0.2	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP36-fill-0.2	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP36-natural-0.3	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP37-fill-0.3	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP37-natural-0.4	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP38-fill-0.3	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP39-BR1-0.5	**20/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP39-fill-0.5	**20/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP39-fill-0.5	**20/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP40-fill-0.5	**20/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

		PAH													PCBs					
		Benzo(a) pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of positives)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TP41-fill-0.5	20/12/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP41-fill-0.5	20/12/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP42-fill-0.5	20/12/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP43-fill-0.2	20/12/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP43-fill-0.2	20/12/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP43-natural-0.3	20/12/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP44-fill-0.3	21/12/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP44-natural-0.4	21/12/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP45-fill-0.3	21/12/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP46-fill-0.3	21/12/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP46-natural-0.4	21/12/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP47-fill-0.1	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP47-natural-0.3	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP48-fill-0.1	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP48-natural-0.3	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP49-fill-0.1	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	6.5	6.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP49-fill-0.1	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP50-fill-0.2	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP50-fill-0.2	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP50-natural-0.4	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP51-fill-0.9	20/12/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP51-natural-1.0	20/12/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP52-fill-0.3	21/12/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP52-fill-0.3	21/12/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP52-natural-0.4	21/12/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP53-fill-0.1	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP54-BR2-0.1	20/12/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP54-fill-0.1	20/12/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP54-fill-0.1	20/12/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP54-fill-0.2	20/12/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP55-fill-0.1	20/12/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP56-fill-0.4	20/12/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP56-fill-0.4	20/12/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP56-natural-0.5	20/12/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP57-fill-0.1	20/12/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP57-natural-0.2	20/12/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP58-fill-0.1	20/12/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP58-fill-0.1	20/12/2021	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP59-fill-0.1	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP59-natural-0.2	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP60-fill-0.1	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP60-fill-0.1	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP61-fill-0.2	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP61-natural-0.3	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP62-fill-0.2	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP62-fill-0.2	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP62-natural-0.3	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP63-fill-0.1	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP64-fill-0.2	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP64-fill-0.2	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP64-natural-0.3	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP65-fill-0.1	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP65-natural-0.25	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP66-fill-0.1	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP66-fill-0.1	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP67-fill-0.1	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP67-natural-0.2	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP68-fill-0.1	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP68-fill-0.1	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP68-natural-0.3	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP69-fill-0.1	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP70-fill-0.2	21/12/2021	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

		PAH													PCBs					
		Benzo(a) pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of positives)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TP70-fill-0.2	**21/12/2021**	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP70-natural-0.4	**21/12/2021**	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP71-fill-0.1	**21/12/2021**	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP71-natural-0.3	**21/12/2021**	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP72-fill-0.2	**21/12/2021**	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP72-fill-0.2	**21/12/2021**	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP73-fill-0.1	**21/12/2021**	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP73-natural-0.2	**21/12/2021**	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP74-fill-0.1	**21/12/2021**	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP74-fill-0.1	**21/12/2021**	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP74-natural-0.1	**21/12/2021**	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP75-fill-0.1	**21/12/2021**	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP75-natural-0.3	**21/12/2021**	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP76-BR1	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP76-fill-0.3	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP76-fill-0.3	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	0.81	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP77-fill-0.5	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP77-natural-0.6	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP78-fill-0.3	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP78-fill-0.3	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP79-fill-0.2	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP79-natural-0.3	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP80-fill-0.2	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP80-fill-0.2	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP80-natural-0.3	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP81-fill-0.2	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP82-fill-0.2	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP82-fill-0.2	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP82-fill-0.3	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP83-fill-0.3	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP83-natural-0.4	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP84-fill-0.2	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP84-fill-0.2	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP85-fill-0.3	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP85-natural-0.4	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP86-BR2-0.3	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP86-fill-0.3	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP86-fill-0.3	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP86-natural-0.4	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP87-fill-0.3	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP92-fill-0.4	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP92-fill-0.4	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP92-natural-0.5	**21/12/2021**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP97-BR	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP97-fill	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP97-nat	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP98-fill	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP98-nat	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP99-fill	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP100-fill	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP100-fill	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP100-nat	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP105-fill	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP106-fill	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP106-fill	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP106-nat	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP107-fill	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP107-nat	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP108-fill	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP108-fill	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP110-fill	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP110-nat	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

		PAH													PCBs					
		Benzo(a) pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of positives)	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TP111-fill	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP112-fill	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP112-fill	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP112-nat	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP113-fill	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP113-nat	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP114-BR2	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP114-fill	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP114-fill	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP115-fill	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP115-nat	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP116-fill	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP116-fill	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP116-nat	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP117-BR2	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP117-fill	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP118-fill	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP118-nat	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP119-BR	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	0.42	<0.30	<0.30	<0.30	<0.30	0.39	0.81	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP119-fill	**21/01/2022**	0.36	0.53	<0.30	<0.30	0.48	<0.30	0.71	<0.30	<0.30	<0.30	<0.30	0.66	3.13	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP119-nat	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP120-fill	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP122-fill	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP122-nat	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP123-fill	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP124-fill	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP124-nat	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP125-fill	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP126-fill	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP126-nat	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP127-fill	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP127-nat	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP128-fill	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP129-fill	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP129-nat	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TP130-fill	**21/01/2022**	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Statistics

Number of Results	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**	**213**
Number of Detects	**1**	**1**	**0**	**0**	**1**	**0**	**2**	**0**	**0**	**0**	**0**	**3**	**4**	**0**	**0**	**0**	**0**	**0**	**0**
Minimum Concentration	**<0.3**	**<0.3**	**<0.3**	**<0.3**	**<0.3**	**<0.3**	**<0.3**	**<0.3**	**<0.3**	**<0.3**	**<0.3**	**<0.3**	**<0.3**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
Minimum Detect	**0.36**	**0.53**	**ND**	**ND**	**0.48**	**ND**	**0.42**	**ND**	**ND**	**ND**	**ND**	**0.39**	**0.81**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
Maximum Concentration	**0.36**	**0.53**	**<0.3**	**<0.3**	**0.48**	**<0.3**	**0.71**	**<0.3**	**<0.3**	**<0.3**	**<0.3**	**6.5**	**6.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
Maximum Detect	**0.36**	**0.53**	**ND**	**ND**	**0.48**	**ND**	**0.71**	**ND**	**ND**	**ND**	**ND**	**6.5**	**6.5**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
Average Concentration *	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.18**	**0.2**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**
Median Concentration *	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**
Standard Deviation *	**0.014**	**0.026**	**0**	**0**	**0.023**	**0**	**0.043**	**0**	**0**	**0**	**0**	**0.44**	**0.48**	**0**	**0**	**0**	**0**	**0**	**0**
95% UCL (Student's-t) *	**0.153**	**0.155**	**0.15**	**0.15**	**0.154**	**0.15**	**0.159**	**0.15**	**0.15**	**0.15**	**0.15**	**0.233**	**0.255**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**
% of Detects	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**1**	**2**	**0**	**0**	**0**	**0**	**0**	**0**
% of Non-Detects	**100**	**100**	**100**	**100**	**100**	**100**	**99**	**100**	**100**	**100**	**100**	**99**	**98**	**100**	**100**	**100**	**100**	**100**	**100**

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

2013, NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay
2013, NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand
2013, NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Silt
2013, NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil
2013, NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil

		Pesticides	TPH				
	Arochlor 1260	DEF	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.1	25	50	100	100	50
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay							
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand							
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Silt							
NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind							
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil							
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil							
Field ID	**Date**						
21.1994.BR1	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
21.1994.BR2	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
21.1994.TP47-BR	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP01FILL_0.0-0.3	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP02FILL_0.0-0.2	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP03FILL_0.0-0.3	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP03NAT_0.3-1.3	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP04FILL_0.0-0.2	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP05FILL_0.0-0.5	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP05NAT_0.5-1.8	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP06FILL_0.0-0.2	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP07FILL_0.0-0.2	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP10FILL_0.0-0.2	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP10FILL_0.2-0.7	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP10NAT_0.7-1.0	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP11FILL_0.0-0.3	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP12FILL_0.0-0.3	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP19FILL_0.0-0.3	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP19FILL_0.0-0.3_BR	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP20FILL_0.0-0.3	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP21FILL_0.0-0.2	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP22FILL_0.0-0.2	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP23-fill-0.1	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP23-fill-0.1	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP23-natural-0.4	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP24-fill-0.1	**21/12/2021**	<0.5	<0.1	<35	<50	<100	<100	<50
TP24-natural-0.4	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP25-fill-0.1	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP25-fill-0.1	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP26-fill-0.1	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP26-natural-0.4	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP27-fill-0.1	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP27-fill-0.1	**21/12/2021**	<0.5	<0.1	69	<50	<100	<100	<50
TP27-natural-0.4	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP28FILL_0.0-0.3	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP29FILL_0.0-0.3	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP30FILL_0.0-0.2	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP31FILL_0.0-0.3	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP32FILL_0.0-0.3	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP33FILL_0.0-0.2	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP34FILL_0.0-0.3	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP34NAT_0.3-1.0	**21/01/2022**	<0.50	<0.10	<35	<50	<100	<100	<50
TP35-Fill-0.1	**1/02/2022**	<0.50	<0.10	<35	<50	<100	<100	<50
TP36-BR3-0.2	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP36-fill-0.2	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP36-natural-0.3	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP37-fill-0.3	**21/12/2021**	<0.50	<0.10	<35	<50	<100	<100	<50
TP37-natural-0.4	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP38-fill-0.3	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP39-BR1-0.5	**20/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP39-fill-0.5	**20/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP39-fill-0.5	**20/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP40-fill-0.5	**20/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50

			Pesticides	TPH				
		Arochlor 1260	DEF	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TP41-fill-0.5	**20/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP41-fill-0.5	**20/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP42-fill-0.5	**20/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP43-fill-0.2	**20/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP43-fill-0.2	**20/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP43-natural-0.3	**20/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP44-fill-0.3	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP44-natural-0.4	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP45-fill-0.3	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP46-fill-0.3	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP46-natural-0.4	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP47-fill-0.1	**21/12/2021**	<0.5	<0.1	<35	<50	<100	<100	<50
TP47-natural-0.3	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP48-fill-0.1	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP48-natural-0.3	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP49-fill-0.1	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP49-fill-0.1	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP50-fill-0.2	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP50-fill-0.2	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP50-natural-0.4	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP51-fill-0.9	**20/12/2021**	<0.50	<0.10	<35	<50	<100	<100	<50
TP51-natural-1.0	**20/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP52-fill-0.3	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP52-fill-0.3	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP52-natural-0.4	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP53-fill-0.1	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP54-BR2-0.1	**20/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP54-fill-0.1	**20/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP54-fill-0.1	**20/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP54-fill-0.2	**20/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP55-fill-0.1	**20/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP56-fill-0.4	**20/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP56-fill-0.4	**20/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP56-natural-0.5	**20/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP57-fill-0.1	**20/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP57-natural-0.2	**20/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP58-fill-0.1	**20/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP58-fill-0.1	**20/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP59-fill-0.1	**21/12/2021**	<0.5	<0.1	<35	<50	<100	<100	<50
TP59-natural-0.2	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP60-fill-0.1	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP60-fill-0.1	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP61-fill-0.2	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP61-natural-0.3	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP62-fill-0.2	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP62-fill-0.2	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP62-natural-0.3	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP63-fill-0.1	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP64-fill-0.2	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP64-fill-0.2	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP64-natural-0.3	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP65-fill-0.1	**21/12/2021**	<0.5	<0.1	<35	<50	<100	<100	<50
TP65-natural-0.25	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP66-fill-0.1	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP66-fill-0.1	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP67-fill-0.1	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP67-natural-0.2	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP68-fill-0.1	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP68-fill-0.1	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP68-natural-0.3	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP69-fill-0.1	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP70-fill-0.2	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50

			Pesticides	TPH				
		Arochlor 1260	DEF	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TP70-fill-0.2	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP70-natural-0.4	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP71-fill-0.1	**21/12/2021**	<0.5	<0.1	<35	<50	<100	<100	<50
TP71-natural-0.3	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP72-fill-0.2	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP72-fill-0.2	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP73-fill-0.1	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP73-natural-0.2	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP74-fill-0.1	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP74-fill-0.1	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP74-natural-0.1	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP75-fill-0.1	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP75-natural-0.3	**21/12/2021**	<0.5	<0.1	<25	<50	<100	<100	<50
TP76-BR1	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP76-fill-0.3	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP76-fill-0.3	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP77-fill-0.5	**21/12/2021**	<0.50	<0.10	<35	<50	<100	<100	<50
TP77-natural-0.6	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP78-fill-0.3	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP78-fill-0.3	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP79-fill-0.2	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP79-natural-0.3	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP80-fill-0.2	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP80-fill-0.2	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP80-natural-0.3	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP81-fill-0.2	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP82-fill-0.2	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP82-fill-0.2	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP82-fill-0.3	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP83-fill-0.3	**21/12/2021**	<0.50	<0.10	<35	<50	<100	<100	<50
TP83-natural-0.4	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP84-fill-0.2	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP84-fill-0.2	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP85-fill-0.3	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP85-natural-0.4	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP86-BR2-0.3	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP86-fill-0.3	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP86-fill-0.3	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP86-natural-0.4	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP87-fill-0.3	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP92-fill-0.4	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP92-fill-0.4	**21/12/2021**	<0.50	<0.10	<35	<50	<100	<100	<50
TP92-natural-0.5	**21/12/2021**	<0.50	<0.10	<25	<50	<100	<100	<50
TP97-BR	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP97-fill	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP97-nat	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP98-fill	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP98-nat	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP99-fill	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP100-fill	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP100-fill	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP100-nat	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP105-fill	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP106-fill	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP106-fill	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP106-nat	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP107-fill	**21/01/2022**	<0.50	<0.10	<35	<50	<100	<100	<50
TP107-nat	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP108-fill	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP108-fill	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP110-fill	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP110-nat	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50

			Pesticides	TPH				
		Arochlor 1260	DEF	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TP111-fill	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP112-fill	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP112-fill	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP112-nat	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP113-fill	**21/01/2022**	<0.50	<0.10	<35	<50	<100	<100	<50
TP113-nat	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP114-BR2	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP114-fill	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP114-fill	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP115-fill	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP115-nat	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP116-fill	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP116-fill	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP116-nat	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP117-BR2	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP117-fill	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP118-fill	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP118-nat	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP119-BR	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP119-fill	**21/01/2022**	<0.50	<0.10	<35	<50	<100	<100	<50
TP119-nat	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP120-fill	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP122-fill	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP122-nat	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP123-fill	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP124-fill	**21/01/2022**	<0.50	<0.10	<35	<50	<100	<100	<50
TP124-nat	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP125-fill	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP126-fill	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP126-nat	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP127-fill	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP127-nat	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP128-fill	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP129-fill	**21/01/2022**	<0.50	<0.10	<35	<50	<100	<100	<50
TP129-nat	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50
TP130-fill	**21/01/2022**	<0.50	<0.10	<25	<50	<100	<100	<50

Statistics

Number of Results	**213**	**213**	**213**	**213**	**213**	**213**	**213**
Number of Detects	**0**	**0**	**1**	**0**	**0**	**0**	**0**
Minimum Concentration	**<0.5**	**<0.1**	**<25**	**<50**	**<100**	**<100**	**<50**
Minimum Detect	**ND**	**ND**	**69**	**ND**	**ND**	**ND**	**ND**
Maximum Concentration	**<0.5**	**<0.1**	**69**	**<50**	**<100**	**<100**	**<50**
Maximum Detect	**ND**	**ND**	**69**	**ND**	**ND**	**ND**	**ND**
Average Concentration *	**0.25**	**0.05**	**13**	**25**	**50**	**50**	**25**
Median Concentration *	**0.25**	**0.05**	**12.5**	**25**	**50**	**50**	**25**
Standard Deviation *	**0**	**0**	**4.1**	**0**	**0**	**0**	**0**
95% UCL (Student's-t) *	**0.25**	**0.05**	**13.63**	**25**	**50**	**50**	**25**
% of Detects	**0**	**0**	**0**	**0**	**0**	**0**	**0**
% of Non-Detects	**100**	**100**	**100**	**100**	**100**	**100**	**100**

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

2013, NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay
2013, NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand
2013, NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Silt
2013, NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil
2013, NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil

APPENDIX C - PHOTOGRAPHS



Photograph 1. Soil matrix throughout TP79. Date: 16.12.2021.



Photograph 2. Soil matrix throughout TP87. Date: 16.12.2021.



Photograph 3. Soil matrix throughout TP37. Date: 16.12.2021.



Photograph 4. Soil profile throughout TP62. Date: 15.12.2021.



Photograph 5. Soil matrix throughout TP27. Date: 20.12.2021.



Photograph 6. Fill materials throughout TP49. Date: 20.12.2021.



Photograph 7. Soil matrix throughout TP29. Date: 15.12.2021.



Photograph 8. Fill materials observed at TP65. Date: 15.12.2021.

APPENDIX D – TEST PIT LOGS

ADE CONSULTING GROUP
6/7 MILLENNIUM COURT SILVERWATER
NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP1

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 10/1/2022 **COMPLETED** 10/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296192 N 6252426

TEST PIT SIZE 150mm **LOGGED BY** RA **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				CL	**TOPSOIL**: Silty CLAY, medium plasticity, dark brown	M			TP1 0-0.2	FM: plastics
E			0.5		CL	**Silty CLAY**: Silty CLAY, high plasticity, orange with gravels	M			TP1 0.2-0.7	
E			1.0		OH	**CLAY**: CLAY, medium plasticity, brown with grey mottles, with trace gravels	M			TP1 0.7-1	
			1.5			TP1 terminated at 1m					
			2.0								
			2.5								
			3.0								

ADE_BOREHOLE / TESTPIT 21.1994_DSI1_LOGS.GPJ STC-2209-19098-AREA A.GPJ 16/2/22

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6/7 MILLENNIUM COURT SILVERWATER
NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP2

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 10/1/2022 **COMPLETED** 10/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296361 N 6252443

TEST PIT SIZE 150mm **LOGGED BY** RA **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					CL	**TOPSOIL**: Silty CLAY, medium plasticity, dark brown	M			TP2 0-0.2	FM: plastics
E	No water encountered		0.5		CL	**Silty CLAY**: Silty CLAY, high plasticity, orange with gravels	M			TP2 0.2-1.3	
E			1.0		CL	**Silty CLAY**: Silty CLAY, low plasticity, grey with shale fragments	M			TP2 1.3-1.4	Weathered shale fragments
			1.5			TP2 terminated at 1.4m					
			2.0								
			2.5								
			3.0								

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NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP3

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 10/1/2022 **COMPLETED** 10/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296311 N 6252347

TEST PIT SIZE 150mm **LOGGED BY** RA **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				CL	**TOPSOIL**: Silty CLAY, medium plasticity, dark brown with trace gravels	M			TP3 0-0.2	
E			0.5		OH	**CLAY**: CLAY, medium plasticity, brown with grey and red mottles, with trace gravels	M			TP3 0.2-1.3	
			1.0								
			1.5			TP3 terminated at 1.3m					
			2.0								
			2.5								
			3.0								

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NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP4

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 11/1/2022 **COMPLETED** 11/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296442 N 6252310

TEST PIT SIZE 150mm **LOGGED BY** RA **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				CL	**TOPSOIL**: Silty CLAY, medium plasticity, dark brown	M			TP4 0-0.2	
E					CL	**Silty CLAY**: Silty CLAY, medium plasticity, brown with red	M			TP4 0.2-0.5	
			0.5								
E					CL	**Silty CLAY**: Silty CLAY, medium plasticity, grey with shale	M			TP4 0.5-1	Weathered shale fragments
			1.0			TP4 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP5

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 11/1/2022 **COMPLETED** 11/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 246518 N 6252301

TEST PIT SIZE 150mm **LOGGED BY** RA **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered		0.5		CL	**TOPSOIL**: Silty CLAY, low plasticity, brown with trace gravels	M			TP5 0-0.5	
E			1.0		CL	**Silty CLAY**: Silty CLAY, low plasticity, red and grey with trace gravels	M			TP5 0.5-1	
			1.5			TP5 terminated at 1m					
			2.0								
			2.5								
			3.0								

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NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP6

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 11/1/2022 **COMPLETED** 11/1/2022 **R.L. SURFACE** ___ **DATUM** ___

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296596 N 6252354

TEST PIT SIZE 150mm **LOGGED BY** RA **CHECKED BY** GT

NOTES ___

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				OH	**TOPSOIL**: CLAY, medium plasticity, dark brown	M			TP6 0-0.2	FM: plastics
E			0.5		OH	**CLAY**: CLAY, high plasticity, red	M			TP6 0.2-0.8	
E			1.0		OH	**CLAY**: CLAY, high plasticity, grey with shale	M			TP6 0.8-1	
			1.5			TP6 terminated at 1m					
			2.0								
			2.5								
			3.0								

ADE CONSULTING GROUP
6/7 MILLENNIUM COURT SILVERWATER
NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP7

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 11/1/2022 **COMPLETED** 11/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296663 N 6252341

TEST PIT SIZE 150mm **LOGGED BY** RA **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					OH	**TOPSOIL**: CLAY, medium plasticity, dark brown	M			TP7 0-0.2	FM: plastics
E	No water encountered		0.5		OH	**CLAY**: CLAY, high plasticity, red	M			TP7 0.2-1.3	
			1.0								
			1.5			TP7 terminated at 1.3m					
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP8

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 11/1/2022 **COMPLETED** 11/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 286895 N 6252315

TEST PIT SIZE 150mm **LOGGED BY** RA **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					CL	**TOPSOIL**: Silty CLAY, medium plasticity, red with trace gravels	M			TP8 0-0.2	
E	No water encountered		0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, red and grey mottled, with trace gravels	M			TP8 0.2-1.3	
			1.0								
						TP8 terminated at 1.3m					
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP9

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 11/1/2022 **COMPLETED** 11/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296801 N 6252289

TEST PIT SIZE 150mm **LOGGED BY** RA **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				CL	**TOPSOIL**: Silty CLAY, medium plasticity, red with trace gravels	M			TP9 0-0.2	
E			0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, red and grey mottled, with trace gravels	M			TP9 0.2-0.7	
E			1.0		CL	**Silty CLAY**: Silty CLAY, medium plasticity, red and grey mottled, with shale	M			TP9 0.7-1.5	
			1.5			TP9 terminated at 1.5m					
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP10

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 10/1/2022 **COMPLETED** 10/1/2022 **R.L. SURFACE** **DATUM**

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296192 N 6252426

TEST PIT SIZE 150mm **LOGGED BY** RA **CHECKED BY** GT

NOTES

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				CL	**TOPSOIL**: Silty CLAY, medium plasticity, dark brown	M			TP10 0-0.2	FM: plastics
E			0.5		CL	**Silty CLAY**: Silty CLAY, high plasticity, orange with gravels	M			TP10 0.2-0.7	
E			1.0		OH	**CLAY**: CLAY, medium plasticity, brown with grey mottles, with trace gravels	M			TP10 0.7-1	
			1.5			TP10 terminated at 1m					
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP11

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 10/1/2022 **COMPLETED** 10/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296273 N 6252432

TEST PIT SIZE 150mm **LOGGED BY** RA **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E						**FILL**: Sandy GRAVEL, poorly graded, angular, brown	M			TP11 0-0.3	Burnt material on surface
E	No water encountered		0.5		CL	**Silty CLAY**: Silty CLAY, high plasticity, orange with gravels	M			TP11 0.3-1.3	
E			1.0		CL	**Silty CLAY**: Silty CLAY, low plasticity, grey with shale fragments	M			TP11 1.3-1.4	
			1.5			TP11 terminated at 1.3m					
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP12

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 10/1/2022 **COMPLETED** 10/1/2022 **R.L. SURFACE** ___ **DATUM** ___

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296329 N 6252421

TEST PIT SIZE 150mm **LOGGED BY** RA **CHECKED BY** GT

NOTES ___

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				SM	**TOPSOIL**: Silty SAND, fine to medium grained, dark brown	M			TP12 0-0.3	Burnt material on surface, plastic, metal and waste materials observed
E			0.5		CL	**Silty CLAY**: Silty CLAY, high plasticity, orange with gravels	M			TP12 0.3-0.6	
						TP12 terminated at 0.6m					
			1.0								
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP13

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 11/1/2022 **COMPLETED** 11/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296468 N 6252414

TEST PIT SIZE 150mm **LOGGED BY** RA **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				CL	**TOPSOIL**: Silty CLAY, medium plasticity, dark brown	M			TP13 0-0.2	
E			0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, brown with red and grey mottes	M			TP13 0.2-0.7	
			1.0			TP13 terminated at 0.7m					
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP14

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 11/1/2022 **COMPLETED** 11/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296507 N 6252386

TEST PIT SIZE 150mm **LOGGED BY** RA **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				CL	**TOPSOIL**: Silty CLAY, medium plasticity, dark brown with black staining, with subangular gravels	M			TP14 0-0.2	FM: brick
E			0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, brown with red and grey mottes	M			TP14 0.2-1.6	
			1.0								
			1.5								
						TP14 terminated at 1.6m					
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP15

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 11/1/2022 **COMPLETED** 11/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296608 N 6252384

TEST PIT SIZE 150mm **LOGGED BY** RA **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					CL	**TOPSOIL**: Silty CLAY, medium plasticity, red with trace gravels	M			TP15 0-0.3	
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, red with trace gravels	M			TP15 0.3-1	
			1.0			TP15 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP16

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 11/1/2022 **COMPLETED** 11/1/2022 **R.L. SURFACE** ___ **DATUM** ___

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296636 N 6252377

TEST PIT SIZE 150mm **LOGGED BY** RA **CHECKED BY** GT

NOTES

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				CL	**TOPSOIL**: Silty CLAY, medium plasticity, red with trace gravels	M			TP16 0-0.4	
E			0.5		OH	**CLAY**: CLAY, medium plasticity, red with trace gravels	M			TP16 0.4-1.9	
			1.0								
			1.5								
			2.0			TP16 terminated at 1.9m					
			2.5								
			3.0								

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TEST PIT NUMBER TP17

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 11/1/2022 **COMPLETED** 11/1/2022 **R.L. SURFACE** ___ **DATUM** ___

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296705 N 6253354

TEST PIT SIZE 150mm **LOGGED BY** RA **CHECKED BY** GT

NOTES ___

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				CL	**TOPSOIL**: Silty CLAY, medium plasticity, red with trace gravels	M			TP17 0-0.3	
E			0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, red and grey mottled, with trace gravels	M			TP17 0.3-0.5	
E			1.0		CL	**Silty CLAY**: Silty CLAY, medium plasticity, brown and grey mottled, with trace gravels	M			TP17 0.5-1	
			1.5			TP17 terminated at 1m					
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP18

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 11/1/2022 **COMPLETED** 11/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296796 N 6252314

TEST PIT SIZE 150mm **LOGGED BY** RA **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered					**FILL**: Sandy GRAVEL, poorly graded, angular, brown and black	M			TP18 0-0.2	
E			0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, red and grey mottled, with trace gravels	M			TP18 0.2-1.5	
			1.0								
			1.5			TP18 terminated at 1.5m					
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP19

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 10/1/2022 **COMPLETED** 10/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296204 N 6252462

TEST PIT SIZE 150mm **LOGGED BY** RA **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				CL	**TOPSOIL**: CLAY, medium plasticity, dark brown with trace gravels	M			TP19 0-0.3	FM: brick
E			0.5		CL	**CLAY**: CLAY, medium plasticity, orange with grey and brown	M			TP19 0.3-1.4	
			1.0								
			1.5			TP19 terminated at 1.4m					
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP20

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 10/1/2022 **COMPLETED** 10/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296268 N 6252458

TEST PIT SIZE 150mm **LOGGED BY** RA **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					OH	**TOPSOIL**: CLAY, high plasticity, dark brown with trace gravels	M			TP20 0-0.3	
E	No water encountered		0.5		OH	**CLAY**: CLAY, high plasticity, orange and grey with trace gravels	M			TP20 0.3-1	
			1.0			TP20 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP21

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 10/1/2022 **COMPLETED** 10/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296342 N 6252446

TEST PIT SIZE 150mm **LOGGED BY** RA **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					OH	**TOPSOIL**: CLAY, medium plasticity, dark brown with trace gravels	M			TP21 0-0.2	FM: plastics
E	No water encountered		0.5		OH	**CLAY**: CLAY, high plasticity, orange and grey with trace gravels	M			TP21 0.2-1	
			1.0			TP21 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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Telephone: 1300796922

TEST PIT NUMBER TP22

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 10/1/2022 **COMPLETED** 10/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296364 N 6252444

TEST PIT SIZE 150mm **LOGGED BY** RA **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					OH	**TOPSOIL**: CLAY, high plasticity, dark brown with subangular gravels	M			TP22 0-0.2	
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, brown with mottled grey, with subangular gravels	M			TP22 0.2-1	
			1.0			TP22 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP23

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 21/12/2021 **COMPLETED** 21/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296516 N 6252432

TEST PIT SIZE 150mm **LOGGED BY** MK **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				SC	**TOPSOIL**: Clayey SAND, dark brown with fine gravels, well sorted	M			TP23 0-0.4	
E			0.5		CL	**CLAY**: CLAY, medium plasticity, light brown with orange and grey staining, some shale fragments	M			TP23 0.4-1	Orange and grey staining
			1.0			TP23 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP24

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 21/12/2021 **COMPLETED** 21/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296575 N 6252427

TEST PIT SIZE 150mm **LOGGED BY** MK **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				SC	**TOPSOIL**: Clayey SAND, dark brown with fine gravels, well sorted	M			TP24 0-0.3	
E			0.5		CL	**CLAY**: CLAY, medium plasticity, orange with light red staining	M			TP24 0.3-1	Red staining
			1.0			TP24 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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Telephone: 1300796922

TEST PIT NUMBER TP25

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 21/12/2021 **COMPLETED** 21/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296655 N 6252416

TEST PIT SIZE 150mm **LOGGED BY** MK **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					SC	**TOPSOIL**: Clayey SAND, dark brown with fine gravels, well sorted	M			TP25 0-0.3	
E	No water encountered		0.5		CL	**CLAY**: CLAY, medium plasticity, orange with light red staining	M			TP25 0.3-1	Red staining
			1.0			TP25 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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Telephone: 1300796922

TEST PIT NUMBER TP26

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 21/12/2021 **COMPLETED** 21/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296748 N 6252406

TEST PIT SIZE 150mm **LOGGED BY** MK **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					SC	**TOPSOIL**: Clayey SAND, dark brown with fine gravels, well sorted	M			TP26 0-0.3	
E	No water encountered		0.5		CL	**CLAY**: CLAY, medium plasticity, orange with light red staining	M			TP26 0.3-1	Red staining
			1.0			TP26 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP27

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 21/12/2021 **COMPLETED** 21/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296799 N 6252401

TEST PIT SIZE 150mm **LOGGED BY** MK **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				SC	**TOPSOIL**: Clayey SAND, dark brown with fine gravels, well sorted	M			TP27 0-0.4	
E			0.5		CL	**CLAY**: CLAY, medium plasticity, orange with grey staining, some shale fragments	M			TP27 0.4-1	Small shale fragments, grey & orange staining
			1.0			TP27 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP28

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 10/1/2022 **COMPLETED** 10/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296273 N 6252578

TEST PIT SIZE 150mm **LOGGED BY** RA **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					OH	**TOPSOIL**: CLAY, medium plasticity, dark brown with trace gravels	M			TP28 0-0.2	FM: plastics
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, brown with grey and red mottles, with trace gravels	M			TP28 0.2-1	
			1.0			TP28 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP29

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 10/1/2022 **COMPLETED** 10/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296320 N 6252585

TEST PIT SIZE 150mm **LOGGED BY** RA **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					CL	**TOPSOIL**: CLAY, medium plasticity, dark brown with orange	M			TP29 0-0.3	
E	No water encountered		0.5		CL	**CLAY**: CLAY, medium plasticity, brown with red and grey mottles, trace gravels	M			TP29 0.3-1	
			1.0			TP29 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP30

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 10/1/2022 **COMPLETED** 10/1/2022 **R.L. SURFACE** ___ **DATUM** ___

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296387 N 6252574

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES ___

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					SC	**TOPSOIL**: Clayey SAND, dark brown with fine gravels, well sorted	M			TP30 0-0.3	
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP30 0.3-1	
			1.0			TP30 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP31

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 10/1/2022 **COMPLETED** 10/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296488 N 6252879

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				SC	**TOPSOIL**: Clayey SAND, dark brown with fine gravels, well sorted	M			TP31 0-0.3	
E			0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP31 0.3-1	
			1.0			TP31 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP32

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 10/1/2022 **COMPLETED** 10/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296597 N 6252564

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					SC	**TOPSOIL**: Clayey SAND, dark brown with fine gravels, well sorted	M			TP32 0-0.3	
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP32 0.3-1	
			1.0			TP32 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP33

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 10/1/2022 **COMPLETED** 10/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296713 N 6252346

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					SC	**TOPSOIL**: Clayey SAND, dark brown with fine gravels, well sorted	M			TP33 0-0.2	
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP33 0.2-1	
			1.0			TP33 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP34

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 10/1/2022 **COMPLETED** 10/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296771 N 6252544

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					SC	**TOPSOIL**: Clayey SAND, dark brown with fine gravels, well sorted	M			TP34 0-0.3	
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP34 0.3-1	
			1.0			TP34 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP35

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 10/1/2022 **COMPLETED** 10/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296867 N 6252551

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					SC	**TOPSOIL**: Clayey SAND, dark brown with fine gravels, well sorted	M			TP35 0-0.2	
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP35 0.2-1	
			1.0			TP35 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP36

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 16/12/2021 **COMPLETED** 16/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296321 N 6252610

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				SC	**TOPSOIL**: Clayey SAND, medium brown with small to medium gravels	M			TP36 0-0.3	
E			0.5		CL	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP36 0.3-0.8	Black and grey staining
E			1.0			**SHALE**: SHALE, medium sized sub angular gravels	M			TP36 0.8-1	Small - medium sub angular shale fragments
			1.5			TP36 terminated at 1m					
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP37

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 16/12/2021 **COMPLETED** 16/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296368 N 6252608

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				SC	**TOPSOIL**: Clayey SAND, medium brown with small to medium gravels	M			TP37 0-0.3	
E			0.5		CL	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP37 0.3-1	Black and grey staining
			1.0			TP37 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP38

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 16/12/2021 **COMPLETED** 16/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296417 N 6252602

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					SC	**TOPSOIL**: Clayey SAND, medium brown with small to medium gravels	M			TP38 0-0.2	
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP38 0.2-1	Black and grey staining
			1.0			TP38 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP39

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 16/12/2021 **COMPLETED** 16/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296525 N 6252589

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered		0.5		OH	**TOPSOIL**: CLAY, light grey and brown, hard	D			TP39 0-0.6	FM: concrete pipe and debris
			1.0 1.5 2.0 2.5 3.0			TP39 terminated at 0.6m					No natural recorded - burst pipe

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TEST PIT NUMBER TP40

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 16/12/2021 **COMPLETED** 16/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296592 N 6252588

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered		0.5		OH	**TOPSOIL**: CLAY, light grey and brown, hard	M			TP40 0-0.6	
E			1.0		OH	**CLAY**: CLAY, medium plasticity, light brown with grey	M			TP40 0.6-1	Grey and black staining
			1.5			TP40 terminated at 1m					
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP41

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 16/12/2021 **COMPLETED** 16/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296690 N 6252581

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered		0.5		OH	**TOPSOIL**: CLAY, light grey and brown, hard	M			TP41 0-0.5	
E			1.0		OH	**CLAY**: CLAY, medium plasticity, light brown with grey	M			TP41 0.5-1	Grey and black staining
			1.5			TP41 terminated at 1m					
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP42

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 16/12/2021 **COMPLETED** 16/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296759 N 6252579

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered		0.5			**FILL**: Silty SAND, fine to medium grain, dark grey, with fibrous organics and trace clay	M			TP42 0-0.5	
E			1.0		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP42 0.5-1	Grey and black staining
			1.5			TP42 terminated at 1m					
			2.0								
			2.5								
			3.0								

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Telephone: 1300796922

TEST PIT NUMBER TP43

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 16/12/2021 **COMPLETED** 16/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296839 N 6252571

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					OL	**TOPSOIL**: Silty CLAY, medium plasticity, dark brown with orange	M			TP43 0-0.2	
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, orange in colour	M			TP43 0.2-1	
			1.0			TP43 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP44

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 20/12/2021 **COMPLETED** 20/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296356 N 6252660

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					SC	**TOPSOIL**: Clayey SAND, medium brown with small to medium gravels	M			TP44 0-0.2	
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP44 0.2-1	Grey and black staining
			1.0			TP44 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP45

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 20/12/2021 **COMPLETED** 20/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296431 N 6252655

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					SC	**TOPSOIL**: Clayey SAND, medium brown with small to medium gravels	M			TP45 0-0.2	
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP45 0.2-1	
			1.0			TP45 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP46

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 20/12/2021 **COMPLETED** 20/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296475 N 6252650

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					SC	**TOPSOIL**: Clayey SAND, medium brown with small to medium gravels	M			TP46 0-0.3	
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP46 0.3-1	
			1.0			TP46 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP47

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 20/12/2021 **COMPLETED** 20/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296531 N 6252651

TEST PIT SIZE 150mm **LOGGED BY** MK **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					SC	**TOPSOIL**: Clayey SAND, medium brown with small to medium gravels	M			TP47 0-0.3	
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, red with white and grey staining with fine gravels	M			TP47 0.3-1	White and grey staining
			1.0			TP47 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP48

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 20/12/2021 **COMPLETED** 20/12/2021 **R.L. SURFACE** ___ **DATUM** ___

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296603 N 6252665

TEST PIT SIZE 150mm **LOGGED BY** MK **CHECKED BY** GT

NOTES ___

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					SC	**TOPSOIL**: Clayey SAND, medium brown with small to medium gravels	M			TP48 0-0.3	
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, light brown with fine gravels	M			TP48 0.3-1	
			1.0			TP48 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

ADE_BOREHOLE / TESTPIT 21.1994_DSI1_LOGS.GPJ STC-2209-19098-AREA A.GPJ 16/2/22

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6/7 MILLENNIUM COURT SILVERWATER
NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP49

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 20/12/2021 **COMPLETED** 20/12/2021 **R.L. SURFACE** --- **DATUM** ---

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296660 N 6252645

TEST PIT SIZE 150mm **LOGGED BY** MK **CHECKED BY** GT

NOTES

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				SC	**TOPSOIL**: Clayey SAND, light brown with small to medium gravels and cobbles	M			TP49 0-0.1	
						TP49 terminated at 0.1m					
			0.5								
			1.0								
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP50

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 20/12/2021 **COMPLETED** 20/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296758 N 6252631

TEST PIT SIZE 150mm **LOGGED BY** MK **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				SC	**TOPSOIL**: Clayey SAND, light brown with small to medium gravels and cobbles	M			TP50 0-0.1	
E			0.5		OH	**CLAY**: CLAY, medium plasticity, red with white and grey staining with fine gravels	M			TP50 0.1-1	White and grey staining
			1.0			TP50 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP51

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 20/12/2021 **COMPLETED** 20/12/2021 **R.L. SURFACE** --- **DATUM** ---

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296810 N 6252626

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				OH	**TOPSOIL**: CLAY, medium plasticity, orange with black and grey staining					
					CL	**Silty CLAY**: Silty CLAY, medium plasticity, dark brown with orange	M			TP51 0.1-0.9	
			0.5								
E			1.0		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP51 0.9-1	Grey and black staining
						TP51 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP52

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 20/12/2021 **COMPLETED** 20/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296460 N 6252745

TEST PIT SIZE 150mm **LOGGED BY** MK **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				SC	**TOPSOIL**: Clayey SAND, medium brown with small to medium gravels	M			TP52 0-0.3	
E			0.5		OH	**CLAY**: CLAY, medium plasticity, red and grey mottling with shale and angular cobbles	M			TP52 0.3-1	
			1.0			TP52 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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Telephone: 1300796922

TEST PIT NUMBER TP53

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 20/12/2021 **COMPLETED** 20/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296383 N 6252744

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				SC	**TOPSOIL**: Clayey SAND, dark brown with fine gravels	M			TP53 0-0.1	
			0.5			TP53 terminated at 0.1m					
			1.0								
			1.5								
			2.0								
			2.5								
			3.0								

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Telephone: 1300796922

TEST PIT NUMBER TP54

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 17/12/2021 **COMPLETED** 17/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296531 N 6252722

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E						**FILL**: Silty SAND, fine to medium grain, dark grey, well sorted with gravels	M			TP54 0-0.1	Potting mix fill material
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP54 0.1-1	Grey and black staining
			1.0			TP54 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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Telephone: 1300796922

TEST PIT NUMBER TP55

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 17/12/2021 **COMPLETED** 17/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296603 N 6252717

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E						**FILL**: Silty SAND, fine to medium grain, dark grey, well sorted with gravel	M			TP55 0-0.1	Potting mix fill material
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP55 0.1-1	Grey and black staining
			1.0			TP55 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP56

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 17/12/2021 **COMPLETED** 17/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296677 N 6252709

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered					**FILL**: Silty SAND, fine to medium grain, dark grey, well sorted with gravels	M			TP56 0-0.4	Potting mix fill material
E			0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP56 0.4-1	Grey and black staining
			1.0			TP56 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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Telephone: 1300796922

TEST PIT NUMBER TP57

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 17/12/2021 **COMPLETED** 17/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296757 N 6252703

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E						**FILL**: Silty SAND, fine to medium grain, dark grey, well sorted with gravels	M			TP57 0-0.1	Potting mix fill material
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP57 0.1-1	Grey and black staining
			1.0			TP57 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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Telephone: 1300796922

TEST PIT NUMBER TP58

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 17/12/2021 **COMPLETED** 17/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296830 N 6252696

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E						**FILL**: Silty SAND, fine to medium grain, dark grey, well sorted with gravels	M			TP58 0-0.1	Potting mix fill material
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP58 0.1-1	Grey and black staining
			1.0			TP58 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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Telephone: 1300796922

TEST PIT NUMBER TP59

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 15/12/2021 **COMPLETED** 15/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296366 N 6252799

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					SC	**TOPSOIL**: Clayey SAND, dark brown with small to medium gravels	D			TP59 0-0.2	
E	No water encountered		0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, orange with white and grey staining	M			TP59 0.2-1	White and grey staining
			1.0			TP59 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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Telephone: 1300796922

TEST PIT NUMBER TP60

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 15/12/2021 **COMPLETED** 15/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296455 N 6252795

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					SC	**TOPSOIL**: Clayey SAND, dark brown with small angular gravels	M			TP60 0-0.2	
E	No water encountered		0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, orange with white and grey staining	M			TP60 0.2-1	White and grey staining
			1.0			TP60 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP61

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 15/12/2021 **COMPLETED** 15/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296535 N 6252785

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					SC	**TOPSOIL**: Clayey SAND, dark brown with small angular gravels	M			TP61 0-0.3	
E	No water encountered		0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, orange with grey mottling	M			TP61 0.3-1	
			1.0			TP61 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP62

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 15/12/2021 **COMPLETED** 15/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296612 N 6252775

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					SC	**TOPSOIL**: Clayey SAND, dark brown with small angular gravels	M			TP62 0-0.3	
E	No water encountered		0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, orange with grey mottling	M			TP62 0.3-1	
			1.0			TP62 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP63

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 15/12/2021 **COMPLETED** 15/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296688 N 6252767

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					SC	**TOPSOIL**: Clayey SAND, dark brown with small gravels	M			TP63 0-0.2	
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, orange with grey and black staining, fine gravels	M			TP63 0.2-1	Grey and black staining
			1.0			TP63 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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6/7 MILLENNIUM COURT SILVERWATER
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Telephone: 1300796922

TEST PIT NUMBER TP64

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 15/12/2021 **COMPLETED** 15/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296766 N 6252760

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				SC	**TOPSOIL**: Clayey SAND, medium brown with small to medium gravels	M			TP64 0-0.3	
E			0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP64 0.3-0.8	Grey and black staining
E			1.0			**SHALE**: SHALE, medium sized sub angular gravels	M			TP64 0.8-1	Shale
			1.5			TP64 terminated at 1m					
			2.0								
			2.5								
			3.0								

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NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP65

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 15/12/2021 **COMPLETED** 15/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296847 N 6252752

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
					SC	**TOPSOIL**: Clayey SAND, medium brown with small to medium gravels				TP65 0-0.3	
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP65 0.3-1	Grey and black staining
E			1.0			TP65 terminated at 1m	M				
			1.5								
			2.0								
			2.5								
			3.0								

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6/7 MILLENNIUM COURT SILVERWATER
NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP66

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 15/12/2021 **COMPLETED** 15/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296456 N 6252889

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					SC	**TOPSOIL**: Clayey SAND, light brown with small to medium gravels	M			TP66 0-0.2	
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP66 0.2-1	Grey and black staining
			1.0			TP66 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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6/7 MILLENNIUM COURT SILVERWATER
NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP67

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 15/12/2021 **COMPLETED** 15/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296502 N 6252881

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					SC	**TOPSOIL**: Clayey SAND, medium brown with small to medium gravels	M			TP67 0-0.2	
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP67 0.2-1	Grey and black staining
			1.0			TP67 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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6/7 MILLENNIUM COURT SILVERWATER
NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP68

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 15/12/2021 **COMPLETED** 15/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296554 N 6252874

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				SC	**TOPSOIL**: Clayey SAND, medium brown with small to medium gravels	M			TP68 0-0.3	
E			0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP68 0.3-1	Grey and black staining
			1.0			TP68 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP69

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 15/12/2021 **COMPLETED** 15/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296649 N 6252869

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					SC	**TOPSOIL**: Clayey SAND, medium brown with small to medium gravels	M			TP69 0-0.2	
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP69 0.2-1	Grey and black staining
			1.0			TP69 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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Telephone: 1300796922

TEST PIT NUMBER TP70

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 15/12/2021 **COMPLETED** 15/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296712 N 6252865

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				SC	**TOPSOIL**: Clayey SAND, medium brown with small to medium gravels	M			TP70 0-0.4	
E			0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP70 0.4-1	Grey and black staining
			1.0			TP70 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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Telephone: 1300796922

TEST PIT NUMBER TP71

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 15/12/2021 **COMPLETED** 15/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296775 N 6252862

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				SC	**TOPSOIL**: Clayey SAND, medium brown with small to medium gravels	M			TP71 0-0.3	
E			0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP71 0.3-1	Grey and black staining
			1.0			TP71 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP72

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 15/12/2021 **COMPLETED** 15/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296869 N 6252858

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				SC	**TOPSOIL**: Clayey SAND, medium brown with small to medium gravels	M			TP72 0-0.4	
E			0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP72 0.4-1	Grey and black staining
			1.0			TP72 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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Telephone: 1300796922

TEST PIT NUMBER TP73

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 15/12/2021 **COMPLETED** 15/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296438 N 6252936

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					SC	**TOPSOIL**: Clayey SAND, medium brown with small to medium gravels	M			TP73 0-0.2	
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP73 0.2-1	Grey and black staining
			1.0			TP73 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

ADE_BOREHOLE / TESTPIT 21.1994_DSI1_LOGS.GPJ STC-2209-19098-AREA A.GPJ 16/2/22

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Telephone: 1300796922

TEST PIT NUMBER TP74

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 15/12/2021 **COMPLETED** 15/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296457 N 6252952

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					SC	**TOPSOIL**: Clayey SAND, medium brown with small to medium gravels	M			TP74 0-0.2	
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP74 0.2-1	Grey and black staining
			1.0			TP74 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP75

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 15/12/2021 **COMPLETED** 15/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296524 N 6252926

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					SC	**TOPSOIL**: Clayey SAND, medium brown with small to medium gravels	M			TP75 0-0.3	
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP75 0.3-1	Grey and black staining
			1.0			TP75 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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Telephone: 1300796922

TEST PIT NUMBER TP76

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 16/12/2021 **COMPLETED** 16/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296534 N 6252945

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					SC	**TOPSOIL**: Clayey SAND, medium brown with small to medium gravels	M			TP76 0-0.3	
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP76 0.3-1	Grey and black staining
			1.0			TP76 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP77

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 16/12/2021 **COMPLETED** 16/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296585 N 6252923

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered		0.5		SC	**TOPSOIL**: Clayey SAND, medium brown with small to medium gravels	M			TP77 0-0.5	
E			1.0		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP77 0.5-1	Grey and black staining
			1.5			TP77 terminated at 1m					
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP78

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 16/12/2021 **COMPLETED** 16/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296595 N 6252942

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					SC	**TOPSOIL**: Clayey SAND, medium brown with small to medium gravels	M			TP78 0-0.3	
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP78 0.3-1	Grey and black staining
			1.0			TP78 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP79

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 16/12/2021 **COMPLETED** 16/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296711 N 6252912

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					SC	**TOPSOIL**: Clayey SAND, medium brown with small to medium gravels	M			TP79 0-0.2	
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP79 0.2-1	Grey and black staining
			1.0			TP79 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP80

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 16/12/2021 **COMPLETED** 16/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296721 N 6252926

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					SC	**TOPSOIL**: Clayey SAND, medium brown with small to medium gravels	M			TP80 0-0.2	
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP80 0.2-1	Grey and black staining
			1.0			TP80 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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Telephone: 1300796922

TEST PIT NUMBER TP81

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 16/12/2021 **COMPLETED** 16/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296799 N 6252900

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					SC	**TOPSOIL**: Clayey SAND, medium brown with small to medium gravels	M			TP81 0-0.2	
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP81 0.2-1	Grey and black staining
			1.0			TP81 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP82

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 16/12/2021 **COMPLETED** 16/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296807 N 6252916

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					SC	**TOPSOIL**: Clayey SAND, medium brown with small to medium gravels	M			TP82 0-0.2	
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP82 0.2-1	Grey and black staining
			1.0			TP82 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

ADE_BOREHOLE / TESTPIT 21.1994_DSI1_LOGS.GPJ STC-2209-19098-AREA A.GPJ 16/2/22

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Telephone: 1300796922

TEST PIT NUMBER TP83

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 16/12/2021 **COMPLETED** 16/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296876 N 6252897

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				SC	**TOPSOIL**: Clayey SAND, medium brown with small to medium gravels	M			TP83 0-0.3	
E			0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP83 0.3-1	Grey and black staining
			1.0			TP83 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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Telephone: 1300796922

TEST PIT NUMBER TP84

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 16/12/2021 **COMPLETED** 16/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296886 N 6252911

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					SC	**TOPSOIL**: Clayey SAND, medium brown with small to medium gravels	M			TP84 0-0.2	
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP84 0.2-1	Grey and black staining
			1.0			TP84 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

ADE_BOREHOLE / TESTPIT 21.1994_DSI1_LOGS.GPJ STC-2209-19098-AREA A.GPJ 16/2/22

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Telephone: 1300796922

TEST PIT NUMBER TP85

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 16/12/2021 **COMPLETED** 16/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296907 N 6252973

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				SC	**TOPSOIL**: Clayey SAND, medium brown with small to medium gravels	M			TP85 0-0.3	
E			0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP85 0.3-1	Grey and black staining
			1.0			TP85 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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Telephone: 1300796922

TEST PIT NUMBER TP86

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 16/12/2021 **COMPLETED** 16/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296857 N 6252976

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				SC	**TOPSOIL**: Clayey SAND, medium brown with small to medium gravels	M			TP86 0-0.3	
E			0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP86 0.3-1	Grey and black staining
			1.0			TP86 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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Telephone: 1300796922

TEST PIT NUMBER TP87

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 16/12/2021 **COMPLETED** 16/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296795 N 6252983

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				SC	**TOPSOIL**: Clayey SAND, medium brown with small to medium gravels	M			TP87 0-0.3	
E			0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP87 0.3-1	Grey and black staining
			1.0			TP87 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP92

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 16/12/2021 **COMPLETED** 16/12/2021 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296373 N 6252956

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				SC	**TOPSOIL**: Clayey SAND, dark brown with cobbles and gravels	M			TP92 0-0.3	FM: bricks
E			0.5		OH	**CLAY**: CLAY, medium plasticity, orange with black and grey staining	M			TP92 0.3-1	Grey and black staining
			1.0			TP92 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP93

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 12/1/2022 **COMPLETED** 12/1/2022 **R.L. SURFACE** ___ **DATUM** ___

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296409 N 6253179

TEST PIT SIZE 150mm **LOGGED BY** RA **CHECKED BY** GT

NOTES ___

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				OH	**TOPSOIL**: CLAY, medium plasticity, dark brown	M			TP93 0-0.4	
E			0.5		OH	**CLAY**: CLAY, high plasticity, light brown, minor gravel	M			TP93 0.4-0.8	
E			1.0		OH	**CLAY**: CLAY, high plasticity, red with brown and grey	M			TP93 0.8-1.1	
			1.5			TP93 terminated at 1.1m					
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP94

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 12/1/2022 **COMPLETED** 12/1/2022 **R.L. SURFACE** ___ **DATUM** ___

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296469 N 6253173

TEST PIT SIZE 150mm **LOGGED BY** RA **CHECKED BY** GT

NOTES ___

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				OH	**TOPSOIL**: CLAY, medium plasticity, dark brown	M			TP94 0-0.2	
E					OH	**CLAY**: CLAY, high plasticity, light brown, minor gravel	M			TP94 0.2-0.5	
E			0.5		OH	**CLAY**: CLAY, high plasticity, red with brown and grey	M			TP94 0.5-0.7	
						TP94 terminated at 0.7m					
			1.0								
			1.5								
			2.0								
			2.5								
			3.0								

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Telephone: 1300796922

TEST PIT NUMBER TP95

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 12/1/2022 **COMPLETED** 12/1/2022 **R.L. SURFACE** ___ **DATUM** ___

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296538 N 6253181

TEST PIT SIZE 150mm **LOGGED BY** RA **CHECKED BY** GT

NOTES ___

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				OH	**TOPSOIL**: CLAY, medium plasticity, dark brown	M			TP95 0-0.1	
E					OH	**CLAY**: CLAY, high plasticity, red with brown and grey	M			TP95 0.1-0.5	
			0.5			TP95 terminated at 0.5m					
			1.0								
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP96

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 12/1/2022 **COMPLETED** 12/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296604 N 6253179

TEST PIT SIZE 150mm **LOGGED BY** RA **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				OH	**TOPSOIL**: CLAY, medium plasticity, dark brown	M			TP96 0-0.3	
E			0.5		OH	**CLAY**: CLAY, high plasticity, red, minor gravel	M			TP96 0.3-1.2	
E			1.0		OH	**CLAY**: CLAY, high plasticity, red with grey mottles, minor gravel	M			TP96 1.2-1.6	
			1.5			TP96 terminated at 1.6m					
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP97

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 13/1/2022 **COMPLETED** 13/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296647 N 6253166

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					CL	**TOPSOIL**: Silty CLAY, medium plasticity, dark brown	M			TP97 0-0.3	
E	No water encountered		0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, grey and orange mottles	M			TP97 0.3-1.8	
			1.0								
			1.5			TP97 terminated at 1.8m					
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP98

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 13/1/2022 **COMPLETED** 13/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296722 N 6253160

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				CL	**TOPSOIL**: Silty CLAY, medium plasticity, dark brown	M			TP98 0-0.3	
E			0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, grey and orange mottles	M			TP98 0.3-2.1	
			1.0								
			1.5								
			2.0			TP98 terminated at 2.1m					
			2.5								
			3.0								

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TEST PIT NUMBER TP99

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 13/1/2022 **COMPLETED** 13/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296788 N 6253150

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered		0.5		SM	**TOPSOIL**: Silty SAND, fine to medium grained, dark brown with gravels	M			TP99 0-0.25	
E			1.0		CL	**Silty CLAY**: Silty CLAY, medium plasticity, orange with brown	M			TP99 0.25-1.5	
			1.5			TP99 terminated at 1.5m					
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP100

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 13/1/2022 **COMPLETED** 13/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296854 N 6253147

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				CL	**TOPSOIL**: Silty CLAY, medium plasticity, dark brown	M			TP100 0-0.2	
E			0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, light brown to orange	M			TP100 0.2-0.8	
E			1.0		CL	**Silty CLAY**: Silty CLAY, medium plasticity, light brown to orange brown, very weatherd shale	M			TP100 0.8-1.5	
			1.5			TP100 terminated at 1.5m					
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP101

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 12/1/2022 **COMPLETED** 12/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296413 N 6253257

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					OH	**TOPSOIL**: CLAY, medium plasticity, dark brown, trace subangular gravels	M			TP101 0-0.4	FM: bricks
E	No water encountered		0.5		OH	**CLAY**: CLAY, high plasticity, light brown, minor gravel	M			TP101 0.4-1.8	
			1.0								
			1.5								
						TP101 terminated at 1.8m					
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP102

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 12/1/2022 **COMPLETED** 12/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296476 N 6253247

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered		0.5		OH	**TOPSOIL**: CLAY, high plasticity, light brown, minor gravel	M			TP102 0-1.1	FM: tile shard and wood fragments
E			1.5		OH	**CLAY**: CLAY, high plasticity, red, minor sand	M			TP102 1.1-1.9	
			2.0			TP102 terminated at 1.9m					
			2.5								
			3.0								

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TEST PIT NUMBER TP103

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 12/1/2022 **COMPLETED** 12/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296535 N 6253237

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered		0.5		OH	**TOPSOIL**: CLAY, high plasticity, light brown, minor gravel	M			TP103 0-1.9	FM: bitumen, brick
			1.0								
			1.5								
E			2.0		OH	**CLAY**: CLAY, high plasticity, orange, minor gravel	M			TP103 1.9-2.1	
						TP103 terminated at 2.1m					
			2.5								
			3.0								

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TEST PIT NUMBER TP104

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 12/1/2022 **COMPLETED** 12/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296611 N 6253241

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					CL	**TOPSOIL**: Silty CLAY, medium plasticity, dark brown	M			TP104 0-0.3	FM: plastics
E	No water encountered		0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, red with grey mottles, minor gravels	M			TP104 0.3-1.7	
			1.0								
			1.5			TP104 terminated at 1.7m					
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP105

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 13/1/2022 **COMPLETED** 13/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296689 N 6253254

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					CL	**TOPSOIL**: Silty CLAY, medium plasticity, light brown to orange	M			TP105 0-0.3	
E	No water encountered		0.5		CL	**Silty CLAY**: Silty CLAY, high plasticity, light brown	M			TP105 0.3-1	
			1.0			TP105 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP106

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 13/1/2022 **COMPLETED** 13/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296748 N 6253246

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					CL	**TOPSOIL**: Silty CLAY, medium plasticity, dark brown	M			TP106 0-0.3	
E	No water encountered		0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, light brown to orange	M			TP106 0.3-1.3	
			1.0			TP106 terminated at 1.3m					
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP107

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 13/1/2022 **COMPLETED** 13/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296799 N 6253247

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered		0.0		CL	**TOPSOIL**: Silty CLAY, medium plasticity, dark brown	M			TP107 0-0.2	
E			0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, light brown to orange	M			TP107 0.2-0.8	
E			1.0		CL	**Silty CLAY**: Silty CLAY, medium plasticity, light brown to orange brown, hard rock with ironstone with eroding gravels	M			TP107 0.8-1.6	
			1.5								
			2.0			TP107 terminated at 1.6m					
			2.5								
			3.0								

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TEST PIT NUMBER TP108

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 13/1/2022 **COMPLETED** 13/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296832 N 6253238

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered		0.0		CL	**TOPSOIL**: Silty CLAY, high plasticity, orange with black	M			TP108 0-0.3	
E			0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, light brown to orange	M			TP108 0.3-2.2	
			1.0								
			1.5								
			2.0								
						TP108 terminated at 2.2m					
			2.5								
			3.0								

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Telephone: 1300796922

TEST PIT NUMBER TP109

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 14/1/2022 **COMPLETED** 14/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296412 N 6253317

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					CL	**TOPSOIL**: Silty CLAY, medium plasticity, dark brown, minor sandes with minor gravel	M			TP109 0-0.2	
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, orange to grey with shale	M			TP109 0.2-1.1	
			1.0								
						TP109 terminated at 1.1m					
			1.5								
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP110

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 14/1/2022 **COMPLETED** 14/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296507 N 6253300

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				CL	**TOPSOIL**: Silty CLAY, medium plasticity, dark brown, minor sands with minor gravel	M			TP110 0-0.1	
E					CL	**Silty CLAY**: Silty CLAY, medium plasticity, brown to orange	M			TP110 0.1-0.4	
E			0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, light brown	M			TP110 0.4-1.3	
E			1.0		CL	**SHALE**: Shale, fine grained with clay infill	M			TP110 1.3-1.5	
			1.5			TP110 terminated at 1.5m					
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP111

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 13/1/2022 **COMPLETED** 13/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296603 N 6253287

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				CL	**TOPSOIL**: Silty CLAY, medium plasticity, dark brown	M			TP111 0-0.3	
E			0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, dark brown to orange	M			TP111 0.3-1.5	
			1.0								
			1.5			TP111 terminated at 1.5m					
			2.0								
			2.5								
			3.0								

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TEST PIT NUMBER TP112

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 13/1/2022 **COMPLETED** 13/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296646 N 6253295

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				CL	**TOPSOIL**: Silty CLAY, medium plasticity, dark brown	M			TP112 0-0.3	
E			0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, dark brown to orange with sands	M			TP112 0.3-2	
			1.0								
			1.5								
			2.0			TP112 terminated at 2m					
			2.5								
			3.0								

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Telephone: 1300796922

TEST PIT NUMBER TP113

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 13/1/2022 **COMPLETED** 13/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296733 N 6253294

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				CL	**TOPSOIL**: Silty CLAY, medium plasticity, dark brown with angular gravels	M			TP113 0-0.3	
E			0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, red to grey mottles with ironstone gravels	M			TP113 0.3-2	
			1.0								
			1.5								
			2.0			TP113 terminated at 2m					
			2.5								
			3.0								

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TEST PIT NUMBER TP114

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 13/1/2022 **COMPLETED** 13/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296759 N 6253281

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					CL	**TOPSOIL**: Silty CLAY, medium plasticity, dark brown with angular gravels	M			TP114 0-0.2	
E	No water encountered		0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, light brown to orange	M			TP114 0.2-1.3	
			1.0								
						TP114 terminated at 1.3m					
			1.5								
			2.0								
			2.5								
			3.0								

ADE_BOREHOLE / TESTPIT 21.1994_DSI1_LOGS.GPJ STC-2209-19098-AREA A.GPJ 16/2/22

ADE CONSULTING GROUP
6/7 MILLENNIUM COURT SILVERWATER
NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP115

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 13/1/2022 **COMPLETED** 13/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296815 N 6253271

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				CL	**TOPSOIL**: Silty CLAY, medium plasticity, dark brown	M			TP115 0-0.1	
E			0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, orange	M			TP115 0.1-0.5	
E			1.0		CL	**Silty CLAY**: Silty CLAY, medium plasticity,yellow to orange	M			TP115 0.5-1.5	
E			1.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, yellow to grey mottles with degrade siltstone and ironstone gravels	M			TP115 1.5-2	
			2.0			TP115 terminated at 1.5m					
			2.5								
			3.0								

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NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP116

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 13/1/2022 **COMPLETED** 13/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296827 N 6253330

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				CL	**TOPSOIL**: Silty CLAY, medium plasticity, dark brown	M			TP116 0-0.2	
E			0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, light brown to orange	M			TP116 0.2-1.5	
			1.0								
			1.5			TP116 terminated at 1.5m					
			2.0								
			2.5								
			3.0								

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NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP117

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 14/1/2022 **COMPLETED** 14/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296435 N 6253379

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					CL	**TOPSOIL**: Silty CLAY, medium plasticity, dark brown to orange with sands	M			TP117 0-0.2	
E	No water encountered		0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, lightbrown to grey with shale shards	M			TP117 0.2-1.8	
			1.0								
			1.5								
						TP117 terminated at 1.8m					
			2.0								
			2.5								
			3.0								

ADE_BOREHOLE / TESTPIT 21.1994_DSI1_LOGS.GPJ STC-2209-19098-AREA A.GPJ 16/2/22

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6/7 MILLENNIUM COURT SILVERWATER
NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP118

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 14/1/2022 **COMPLETED** 14/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296523 N 6253376

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				CL	**TOPSOIL**: Silty CLAY, medium plasticity, dark brown, minor sands with minor gravel	M			TP118 0-0.1	
E			0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, brown to orange	M			TP118 0.1-1.5	
			1.0								
			1.5			TP118 terminated at 1.5m					
			2.0								
			2.5								
			3.0								

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NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP119

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 14/1/2022 **COMPLETED** 14/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296613 N 6253390

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				CL	**TOPSOIL**: Silty CLAY, medium plasticity, dark brown, minor sands with minor gravel	M			TP119 0-0.3	
E			0.5		CL	**CLAY**: CLAY, medium plasticity, light grey to orange, red ironstone	M			TP119 0.3-1.6	
			1.0								
			1.5								
						TP119 terminated at 1.6m					
			2.0								
			2.5								
			3.0								

ADE_BOREHOLE / TESTPIT 21.1994_DSI1_LOGS.GPJ STC-2209-19098-AREA A.GPJ 16/2/22

ADE CONSULTING GROUP
6/7 MILLENNIUM COURT SILVERWATER
NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP120

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 14/1/2022 **COMPLETED** 14/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296684 N 6253386

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					CL	**TOPSOIL**: Silty CLAY, medium plasticity, dark brown, minor sands with minor gravel	M			TP120 0-0.2	
E	No water encountered		0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, orange with minor sand	M			TP120 0.2-1.4	
E			1.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, orange with ironstone gravels and gravels	M			TP120 1.4-1.6	
						TP120 terminated at 1.6m					
			2.0								
			2.5								
			3.0								

ADE CONSULTING GROUP
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NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP122

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 13/1/2022 **COMPLETED** 13/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296782 N 6253362

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				SM	**TOPSOIL**: Silty SAND, fine to medium grained, dark brown with gravels	M			TP122 0-0.3	
E			0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, orange with brown	M			TP122 0.3-1.5	
			1.0								
			1.5			TP122 terminated at 1.5m					
			2.0								
			2.5								
			3.0								

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NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP123

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 13/1/2022 **COMPLETED** 13/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296845 N 6253365

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				SM	**TOPSOIL**: Silty SAND, fine to medium grained, dark brown with gravels	M			TP123 0-0.2	
E			0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, orange with brown	M			TP123 0.2-1.7	
			1.0								
			1.5								
						TP123 terminated at 1.7m					
			2.0								
			2.5								
			3.0								

ADE_BOREHOLE / TESTPIT 21.1994_DSI1_LOGS.GPJ STC-2209-19098-AREA A.GPJ 16/2/22

ADE CONSULTING GROUP
6/7 MILLENNIUM COURT SILVERWATER
NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP124

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 13/1/2022 **COMPLETED** 13/1/2022 **R.L. SURFACE** ___ **DATUM** ___

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296822 N 6253398

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES ___

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				SM	**TOPSOIL**: Silty SAND, fine to medium grained, dark brown with gravels	M			TP124 0-0.3	
E			0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, orange with minor gravels	M			TP124 0.3-0.6	
			1.0			TP124 terminated at 0.6m					
			1.5								
			2.0								
			2.5								
			3.0								

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NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP125

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 14/1/2022 **COMPLETED** 14/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296476 N 6253467

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					CL	**TOPSOIL**: Silty CLAY, medium plasticity, dark brown with gravels and minor sands	M			TP125 0-0.2	
E	No water encountered		0.5		OH	**CLAY**: CLAY, medium plasticity, light grey with orange, minor gravel	M			TP125 0.2-1.5	
			1.0								
			1.5			TP125 terminated at 1.5m					
			2.0								
			2.5								
			3.0								

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6/7 MILLENNIUM COURT SILVERWATER
NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP126

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 14/1/2022 **COMPLETED** 14/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296526 N 6253461

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				CL	**TOPSOIL**: Silty CLAY, medium plasticity, dark brown with gravels and minor sands	M			TP126 0-0.1	
E			0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, red with grey with gravels and minor sands	M			TP126 0.1-1.9	
			1.0								
			1.5								
			2.0			TP126 terminated at 1.9m					
			2.5								
			3.0								

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NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP127

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 14/1/2022 **COMPLETED** 14/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296617 N 6253453

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				CL	**TOPSOIL**: Silty CLAY, medium plasticity, dark brown with gravels and minor sands	M			TP127 0-0.2	
E			0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, red with grey with gravels and minor sands	M			TP127 0.2-2.2	
			1.0								
			1.5								
			2.0								
						TP127 terminated at 2.2m					
			2.5								
			3.0								

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6/7 MILLENNIUM COURT SILVERWATER
NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP128

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 14/1/2022 **COMPLETED** 14/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296698 N 6253448

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				CL	**TOPSOIL**: Silty CLAY, medium plasticity, dark brown with gravels and minor sands	M			TP128 0-0.1	
E			0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, red with grey with gravels and minor sands	M			TP128 0.1-1	
			1.0			TP128 terminated at 1m					
			1.5								
			2.0								
			2.5								
			3.0								

ADE CONSULTING GROUP
6/7 MILLENNIUM COURT SILVERWATER
NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP129

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 14/1/2022 **COMPLETED** 14/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296749 N 6253447

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E	No water encountered				CL	**TOPSOIL**: Silty CLAY, medium plasticity, dark brown with gravels and minor sands	M			TP129 0-0.3	
E			0.5		OH	**CLAY**: CLAY, medium plasticity, orange with red, minor gravel	M			TP129 0.3-1.2	
			1.0			TP129 terminated at 1.2m					
			1.5								
			2.0								
			2.5								
			3.0								

ADE_BOREHOLE / TESTPIT 21.1994_DSI1_LOGS.GPJ STC-2209-19098-AREA A.GPJ 16/2/22

ADE CONSULTING GROUP
6/7 MILLENNIUM COURT SILVERWATER
NSW 2128
Telephone: 1300796922

TEST PIT NUMBER TP130

CLIENT Fife Capital **PROJECT NAME** Environmental Site Assessment

PROJECT NUMBER 21.1994 **PROJECT LOCATION** Aldington Road, Kemps Creek

DATE STARTED 14/1/2022 **COMPLETED** 14/1/2022 **R.L. SURFACE** _____ **DATUM** _____

EXCAVATION CONTRACTOR Fife Capital **SLOPE** --- **BEARING** n.a

EQUIPMENT Excavator **CO-ORDINATES** E 296795 N 6253441

TEST PIT SIZE 150mm **LOGGED BY** JH **CHECKED BY** GT

NOTES _____

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Moisture Content	Consistency	PID (ppm)	Samples Tests Remarks	Additional Observations
E					SM	**TOPSOIL**: Silty SAND, fine to medium grained, dark brown with gravels	M			TP130 0-0.2	
E	No water encountered		0.5		CL	**Silty CLAY**: Silty CLAY, medium plasticity, orange with brown	M			TP130 0.2-1.5	
			1.0								
			1.5			TP130 terminated at 1.5m					
			2.0								
			2.5								
			3.0								

APPENDIX E - CHAIN OF CUSTODY DOCUMENTATION AND ANALYTICAL REPORTS

Sydney Laboratory Services

A division of A. D. Envirotech Australia Pty Ltd
Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669

A.B.N. 52 093 452 950

Analysis report: 21.1994 (DSI 1)
Laboratory LOT NO: 2106428

Date Received: 21.12.2021
Date Analysed: 04.01.2022
Report Date: 04.01.2022
Client: ADE Consulting Group
Job Location: Fife Capital
Analytical method: Polarised Light Microscopy with dispersion staining (ADE method ABI)

*Asbestos identification as per "National Environment Protection (Assessment of site contamination) Measure, Schedule B1" and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" is not coverd by NATA scope of accreditation

Analysis performed by:

Grace (Weichen) Jia
Approved asbestos identifier

Results Authorised By:

Kim Foley
Approved Signatory

Accreditation No.14664.
Accredited for compliance with ISO/IEC 17025 - Testing.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Tests not covered by NATA are denoted with *.

General Comments:

Sydney Laboratory Services is responsible for all the information in the report, except that provided by the customer. All sampling information included in the report has been provided by the client

Information provided by the client can affect the validity of the results.

Sample analysed as received.

Samples are stored for minimum period of 1 month if longer time is not advised by client.

Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.01g/kg (0.001% w/w) for friable asbestos and 0.1g/kg (0.01% w/w) for bonded asbestos.

This form of analysis is outside the scope of NATA accreditation.

Bonded asbestos containing material (bonded ACM) : Bonded ACM comprises asbestos-containing-material which is in sound condition, although possibly broken or fragmented, and where the asbestos is bound in a matrix such as cement or resin.This term is restricted to material that cannot pass a 7 mm x 7 mm sieve.

Fibrous asbestos (FA): FA comprises friable asbestos material and includes severely weathered cement sheet, insulation products and woven asbestos material. This type of friable asbestos is defined here as asbestos material that is in a degraded condition such that it can be broken or crumbled by hand pressure. This material is typically unbonded or was previously bonded and is now significantly degraded (crumbling).

Asbestos fines (AF): AF includes free fibres, small fibre bundles and also small fragments of bonded ACM that pass through a 7 mm x 7 mm sieve.

Note: The screening level of 0.001% w/w asbestos in soil for FA and AF (i.e. non-bonded/friable asbestos) only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres.

Accreditation No.14664.
Accredited for compliance with ISO/IEC 17025 - Testing.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Tests not covered by NATA are denoted with *.

Client Sample ID.	Laboratory Sample No.	Sample Description/Matrix	Sample Dimensions (cm) unless stated otherwise	Result	Comments
21.1994 TP77-fill-0.5	2021042742	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
21.1994 TP80-fill-0.2	2021042748	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
21.1994 TP83-fill-0.3	2021042755	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
21.1994 TP86-fill-0.3	2021042761	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
21.1994 TP92-fill-0.4	2021042766	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
21.1994 TP37-fill-0.3	2021042770	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
21.1994 TP52-fill-0.3	2021042777	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil

Sydney Laboratory Services

A division of A. D. Envirotech Australia Pty Ltd
Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669

A.B.N. 52 093 452 950

Analysis report: 21.1994 (DSI 1)
Laboratory LOT NO: 2106436

Date Received: 21.12.2021
Date Analysed: 04.01.2022
Report Date: 04.01.2022
Client: ADE Consulting Group
Job Location: Fife Capital
Analytical method: Polarised Light Microscopy with dispersion staining (ADE method ABI)

*Asbestos identification as per "National Environment Protection (Assessment of site contamination) Measure, Schedule B1" and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" is not coverd by NATA scope of accreditation

Analysis performed by:

Grace (Weichen) Jia
Approved asbestos identifier

Results Authorised By:

Kim Foley
Approved Signatory

Accreditation No.14664.
Accredited for compliance with ISO/IEC 17025 - Testing.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Tests not covered by NATA are denoted with *.

General Comments:

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Sample analysed as received.

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Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.01g/kg (0.001% w/w) for friable asbestos and 0.1g/kg (0.01% w/w) for bonded asbestos.

This form of analysis is outside the scope of NATA accreditation.

Bonded asbestos containing material (bonded ACM) : Bonded ACM comprises asbestos-containing-material which is in sound condition, although possibly broken or fragmented, and where the asbestos is bound in a matrix such as cement or resin.This term is restricted to material that cannot pass a 7 mm x 7 mm sieve.

Fibrous asbestos (FA): FA comprises friable asbestos material and includes severely weathered cement sheet, insulation products and woven asbestos material. This type of friable asbestos is defined here as asbestos material that is in a degraded condition such that it can be broken or crumbled by hand pressure. This material is typically unbonded or was previously bonded and is now significantly degraded (crumbling).

Asbestos fines (AF): AF includes free fibres, small fibre bundles and also small fragments of bonded ACM that pass through a 7 mm x 7 mm sieve.

Note: The screening level of 0.001% w/w asbestos in soil for FA and AF (i.e. non-bonded/friable asbestos) only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres.

Accreditation No.14664.

Accredited for compliance with ISO/IEC 17025 - Testing.

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Tests not covered by NATA are denoted with *.

Client Sample ID.	Laboratory Sample No.	Sample Description/Matrix	Sample Dimensions (cm) unless stated otherwise	Result	Comments
21.1994 TP47-fill-0.1	2021042825	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
21.1994 TP50-fill-0.2	2021042832	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
21.1994 TP24-fill-0.1	2021042839	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
21.1994 TP27-fill-0.1	2021042845	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil

Sydney Laboratory Services

A division of A. D. Envirotech Australia Pty Ltd
Unit 4/10-11 Millennium Court,
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Ph: (02) 9648-6669

A.B.N. 52 093 452 950

Analysis report: 21.1994 (DSI 1)
Laboratory LOT NO: 2106437

Date Received: 21.12.2021
Date Analysed: 04.01.2022
Report Date: 04.01.2022
Client: ADE Consulting Group
Job Location: Fife Capital
Analytical method: Polarised Light Microscopy with dispersion staining (ADE method ABI)

*Asbestos identification as per "National Environment Protection (Assessment of site contamination) Measure, Schedule B1" and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" is not coverd by NATA scope of accreditation

Analysis performed by:

Grace (Weichen) Jia
Approved asbestos identifier

Results Authorised By:

Kim Foley
Approved Signatory

Accreditation No.14664.
Accredited for compliance with ISO/IEC 17025 - Testing.
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General Comments:

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Sample analysed as received.

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Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.01g/kg (0.001% w/w) for friable asbestos and 0.1g/kg (0.01% w/w) for bonded asbestos.

This form of analysis is outside the scope of NATA accreditation.

Bonded asbestos containing material (bonded ACM) : Bonded ACM comprises asbestos-containing-material which is in sound condition, although possibly broken or fragmented, and where the asbestos is bound in a matrix such as cement or resin.This term is restricted to material that cannot pass a 7 mm x 7 mm sieve.

Fibrous asbestos (FA): FA comprises friable asbestos material and includes severely weathered cement sheet, insulation products and woven asbestos material. This type of friable asbestos is defined here as asbestos material that is in a degraded condition such that it can be broken or crumbled by hand pressure. This material is typically unbonded or was previously bonded and is now significantly degraded (crumbling).

Asbestos fines (AF): AF includes free fibres, small fibre bundles and also small fragments of bonded ACM that pass through a 7 mm x 7 mm sieve.

Note: The screening level of 0.001% w/w asbestos in soil for FA and AF (i.e. non-bonded/friable asbestos) only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres.

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Client Sample ID.	Laboratory Sample No.	Sample Description/Matrix	Sample Dimensions (cm) unless stated otherwise	Result	Comments
21.1994 TP59-fill-0.1	2021042848	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
21.1994 TP62-fill-0.2	2021042855	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
21.1994 TP65-fill-0.1	2021042862	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
21.1994 TP68-fill-0.1	2021042868	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
21.1994 TP71-fill-0.1	2021042876	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
21.1994 TP74-fill-0.1	2021042882	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil

Sydney Laboratory Services

A division of A. D. Envirotech Australia Pty Ltd
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A.B.N. 52 093 452 950

Analysis report: 21.1994
Laboratory LOT NO: 2106416

Date Received: 20.12.2021
Date Analysed: 23.12.2021
Report Date: 23.12.2021
Client: ADE Consulting Group
Job Location: Fife Capital
Analytical method: Polarised Light Microscopy with dispersion staining (ADE method ABI)

*Asbestos identification as per "National Environment Protection (Assessment of site contamination) Measure, Schedule B1" and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" is not coverd by NATA scope of accreditation

Analysis performed by:

Sifan Xu
Approved asbestos identifier

Results Authorised By:

Sifan Xu
Approved Signatory

Accreditation No.14664.
Accredited for compliance with ISO/IEC 17025 - Testing.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Tests not covered by NATA are denoted with *.

General Comments:

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Information provided by the client can affect the validity of the results.

Sample analysed as received.

Samples are stored for minimum period of 1 month if longer time is not advised by client.

Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.01g/kg (0.001% w/w) for friable asbestos and 0.1g/kg (0.01% w/w) for bonded asbestos.

This form of analysis is outside the scope of NATA accreditation.

Bonded asbestos containing material (bonded ACM) : Bonded ACM comprises asbestos-containing-material which is in sound condition, although possibly broken or fragmented, and where the asbestos is bound in a matrix such as cement or resin.This term is restricted to material that cannot pass a 7 mm x 7 mm sieve.

Fibrous asbestos (FA): FA comprises friable asbestos material and includes severely weathered cement sheet, insulation products and woven asbestos material. This type of friable asbestos is defined here as asbestos material that is in a degraded condition such that it can be broken or crumbled by hand pressure. This material is typically unbonded or was previously bonded and is now significantly degraded (crumbling).

Asbestos fines (AF): AF includes free fibres, small fibre bundles and also small fragments of bonded ACM that pass through a 7 mm x 7 mm sieve.

Note: The screening level of 0.001% w/w asbestos in soil for FA and AF (i.e. non-bonded/friable asbestos) only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres.

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Client Sample ID.	Laboratory Sample No.	Sample Description/Matrix	Sample Dimensions (cm) unless stated otherwise	Result	Comments
TP41-fill-0.5	2021042519	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
TP51-fill-0.9	2021042525	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
TP56-fill-0.4	2021042531	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil

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A.B.N. 52 093 452 950

Analysis report: 21.1994-DSI1
Laboratory LOT NO: 2200206

Date Received: 19.01.2022
Date Analysed: 27.01.2022
Report Date: 27.01.2022
Client: ADE Consulting Group
Job Location: Fife Capital
Analytical method: Polarised Light Microscopy with dispersion staining (ADE method ABI)
*Asbestos identification as per "National Environment Protection (Assessment of site contamination) Measure, Schedule B1" and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" is not coverd by NATA scope of accreditation

Analysis performed by:

Kim Foley
Approved asbestos identifier

Results Authorised By:

Kim Foley
Approved Signatory

Accreditation No.14664.
Accredited for compliance with ISO/IEC 17025 - Testing.
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Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.01g/kg (0.001% w/w) for friable asbestos and 0.1g/kg (0.01% w/w) for bonded asbestos.

This form of analysis is outside the scope of NATA accreditation.

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Asbestos fines (AF): AF includes free fibres, small fibre bundles and also small fragments of bonded ACM that pass through a 7 mm x 7 mm sieve.

Note: The screening level of 0.001% w/w asbestos in soil for FA and AF (i.e. non-bonded/friable asbestos) only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres.

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Client Sample ID.	Laboratory Sample No.	Sample Description/Matrix	Sample Dimensions (cm) unless stated otherwise	Result	Comments
TP119-fill	2022001265	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
TP129-fill	2022001270	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
TP127-fill	2022001274	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
TP110-fill	2022001282	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil

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A.B.N. 52 093 452 950

Analysis report: 21.1994-DSI1

Laboratory LOT NO: 2200201

Date Received: 19.01.2022
Date Analysed: 28.01.2022
Report Date: 28.01.2022
Client: ADE Consulting Group
Job Location: Fife Capital
Analytical method: Polarised Light Microscopy with dispersion staining (ADE method ABI)

*Asbestos identification as per "National Environment Protection (Assessment of site contamination) Measure, Schedule B1" and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" is not coverd by NATA scope of accreditation

Analysis performed by:

Kim Foley
Approved asbestos identifier

Results Authorised By:

Kim Foley
Approved Signatory

Accreditation No.14664.
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Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.01g/kg (0.001% w/w) for friable asbestos and 0.1g/kg (0.01% w/w) for bonded asbestos.

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Asbestos fines (AF): AF includes free fibres, small fibre bundles and also small fragments of bonded ACM that pass through a 7 mm x 7 mm sieve.

Note: The screening level of 0.001% w/w asbestos in soil for FA and AF (i.e. non-bonded/friable asbestos) only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres.

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Client Sample ID.	Laboratory Sample No.	Sample Description/Matrix	Sample Dimensions (cm) unless stated otherwise	Result	Comments
TP98-fill	2022001213	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
TP107-fill	2022001223	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
TP113-fill	2022001231	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
TP116-fill	2022001239	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
TP122-fill	2022001241	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
TP124-fill	2022001244	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil

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Silverwater 2128
Ph: (02) 9648-6669

A.B.N. 52 093 452 950

Analysis report: 21.1994
Laboratory LOT NO: 2200209

Date Received: 19.01.2022
Date Analysed: 27.01.2022
Report Date: 27.01.2022
Client: ADE Consulting Group
Job Location: Fife Capital
Analytical method: Polarised Light Microscopy with dispersion staining (ADE method ABI)

*Asbestos identification as per "National Environment Protection (Assessment of site contamination) Measure, Schedule B1" and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" is not coverd by NATA scope of accreditation

Analysis performed by:

Sifan Xu
Approved asbestos identifier

Results Authorised By:

Sifan Xu
Approved Signatory

Accreditation No.14664.
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Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.01g/kg (0.001% w/w) for friable asbestos and 0.1g/kg (0.01% w/w) for bonded asbestos.

This form of analysis is outside the scope of NATA accreditation.

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Asbestos fines (AF): AF includes free fibres, small fibre bundles and also small fragments of bonded ACM that pass through a 7 mm x 7 mm sieve.

Note: The screening level of 0.001% w/w asbestos in soil for FA and AF (i.e. non-bonded/friable asbestos) only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres.

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Client Sample ID.	Laboratory Sample No.	Sample Description/Matrix	Sample Dimensions (cm) unless stated otherwise	Result	Comments
TP1 (fill) 0.0-0.2	2022001290	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
TP4 (fill) 0.0-0.3	2022001295	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
TP13 (fill) 0.0-0.1	2022001302	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil
TP16 (fill) 0.0-0.3	2022001307	Soil	500 ml	No Chrysotile asbestos found	Nil
				No Amosite asbestos found	Nil
				No Crocidolite asbestos found	Nil
				No Synthetic Mineral Fibres found	Nil
				Organic fibres found	Nil

ADE Consulting Group Pty Ltd
Unit 6/7 Millennium Court
Silverwater
NSW 2128

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: **Hayden Nancarrow**

Report **851691-S**
Project name 200 ALDINGTON ROAD KEMPS CREEK
Project ID 21.1994.DSI1
Received Date Dec 17, 2021

Client Sample ID			**21.1994.SR**	**21.1994.TP59-SALINITY**	**21.1994.TP65-SALINITY**	**21.1994.TP71-SALINITY**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S21-De46870**	**S21-De46871**	**S21-De46872**	**S21-De46873**
Date Sampled			**Dec 15, 2021**	**Dec 15, 2021**	**Dec 15, 2021**	**Dec 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	< 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	%	133	-	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	-
Acenaphthene	0.5	mg/kg	< 0.5	-	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	-
Anthracene	0.5	mg/kg	< 0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Chrysene	0.5	mg/kg	< 0.5	-	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			21.1994.SR	21.1994.TP59-SALINITY	21.1994.TP65-SALINITY	21.1994.TP71-SALINITY
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De46870	S21-De46871	S21-De46872	S21-De46873
Date Sampled			Dec 15, 2021	Dec 15, 2021	Dec 15, 2021	Dec 15, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	%	91	-	-	-
p-Terphenyl-d14 (surr.)	1	%	108	-	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-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	-	-	-
Dibutylchlorendate (surr.)	1	%	92	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	93	-	-	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	-	-	-
Bolstar	0.2	mg/kg	< 0.2	-	-	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	-	-	-
Chlorpyrifos	0.2	mg/kg	< 0.2	-	-	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	-	-	-
Coumaphos	2	mg/kg	< 2	-	-	-
Demeton-S	0.2	mg/kg	< 0.2	-	-	-
Demeton-O	0.2	mg/kg	< 0.2	-	-	-
Diazinon	0.2	mg/kg	< 0.2	-	-	-
Dichlorvos	0.2	mg/kg	< 0.2	-	-	-
Dimethoate	0.2	mg/kg	< 0.2	-	-	-

Client Sample ID			21.1994.SR	21.1994.TP59-SALINITY	21.1994.TP65-SALINITY	21.1994.TP71-SALINITY
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De46870	S21-De46871	S21-De46872	S21-De46873
Date Sampled			Dec 15, 2021	Dec 15, 2021	Dec 15, 2021	Dec 15, 2021
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Disulfoton	0.2	mg/kg	< 0.2	-	-	-
EPN	0.2	mg/kg	< 0.2	-	-	-
Ethion	0.2	mg/kg	< 0.2	-	-	-
Ethoprop	0.2	mg/kg	< 0.2	-	-	-
Ethyl parathion	0.2	mg/kg	< 0.2	-	-	-
Fenitrothion	0.2	mg/kg	< 0.2	-	-	-
Fensulfothion	0.2	mg/kg	< 0.2	-	-	-
Fenthion	0.2	mg/kg	< 0.2	-	-	-
Malathion	0.2	mg/kg	< 0.2	-	-	-
Merphos	0.2	mg/kg	< 0.2	-	-	-
Methyl parathion	0.2	mg/kg	< 0.2	-	-	-
Mevinphos	0.2	mg/kg	< 0.2	-	-	-
Monocrotophos	2	mg/kg	< 2	-	-	-
Naled	0.2	mg/kg	< 0.2	-	-	-
Omethoate	2	mg/kg	< 2	-	-	-
Phorate	0.2	mg/kg	< 0.2	-	-	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	-	-	-
Pyrazophos	0.2	mg/kg	< 0.2	-	-	-
Ronnel	0.2	mg/kg	< 0.2	-	-	-
Terbufos	0.2	mg/kg	< 0.2	-	-	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	-	-	-
Tokuthion	0.2	mg/kg	< 0.2	-	-	-
Trichloronate	0.2	mg/kg	< 0.2	-	-	-
Triphenylphosphate (surr.)	1	%	98	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	10	-	-	-
Cadmium	0.4	mg/kg	< 0.4	-	-	-
Chromium	5	mg/kg	32	-	-	-
Copper	5	mg/kg	20	-	-	-
Lead	5	mg/kg	23	-	-	-
Mercury	0.1	mg/kg	< 0.1	-	-	-
Nickel	5	mg/kg	6.8	-	-	-
Zinc	5	mg/kg	39	-	-	-
% Moisture	1	%	22	21	20	19
Chloride	10	mg/kg	-	18	< 10	14
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	21	21	180
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	5.8	6.0	7.0
Sulphate (as SO4)	10	mg/kg	-	< 10	< 10	< 10

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	Sydney	Dec 20, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Dec 20, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Dec 20, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Dec 20, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Dec 20, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Sydney	Dec 20, 2021	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Organophosphorus Pesticides	Sydney	Dec 20, 2021	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS			
Metals M8	Sydney	Dec 20, 2021	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Sydney	Dec 20, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			
Chloride	Sydney	Dec 24, 2021	28 Days
- Method: In-house method LTM-INO-4270 Anions by Ion Chromatography			
Conductivity (1:5 aqueous extract at 25°C as rec.)	Sydney	Dec 20, 2021	7 Days
- Method: LTM-INO-4030 Conductivity			
pH (1:5 Aqueous extract at 25°C as rec.)	Sydney	Dec 20, 2021	7 Days
- Method: LTM-GEN-7090 pH by ISE			
Sulphate (as SO4)	Sydney	Dec 24, 2021	28 Days
- Method: In-house method LTM-INO-4270 Sulphate by Ion Chromatograph			

eurofins | Environment Testing

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Project Name: 200 ALDINGTON ROAD KEMPS CREEK
Project ID: 21.1994.DSI1

Order No.:
Report #: 851691
Phone: 02 9400 7711
Fax: 02 9401 0097

Received: Dec 17, 2021 12:48 PM
Due: Dec 24, 2021
Priority: 5 Day
Contact Name: Hayden Nancarrow

Eurofins Analytical Services Manager : Asim Khan

Sample Detail						Chloride	Conductivity (1:5 aqueous extract at 25°C as rec.)	pH (1:5 Aqueous extract at 25°C as rec.)	Sulphate (as SO4)	Moisture Set	Eurofins Suite B10
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	21.1994.SR	Dec 15, 2021		Soil	S21-De46870					X	X
2	21.1994.TP59-SALINITY	Dec 15, 2021		Soil	S21-De46871	X	X	X	X	X	
3	21.1994.TP65-SALINITY	Dec 15, 2021		Soil	S21-De46872	X	X	X	X	X	
4	21.1994.TP71-SALINITY	Dec 15, 2021		Soil	S21-De46873	X	X	X	X	X	
Test Counts						3	3	3	3	4	1

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/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 5.4
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% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

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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	
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							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	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							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chloride	mg/kg	< 10			10	Pass	
Conductivity (1:5 aqueous extract at 25°C as rec.)	uS/cm	< 10			10	Pass	
Sulphate (as SO4)	mg/kg	< 10			10	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	107			70-130	Pass	
TRH C10-C14	%	113			70-130	Pass	
Naphthalene	%	108			70-130	Pass	
TRH C6-C10	%	107			70-130	Pass	
TRH >C10-C16	%	114			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	108			70-130	Pass	
Toluene	%	101			70-130	Pass	
Ethylbenzene	%	103			70-130	Pass	
m&p-Xylenes	%	104			70-130	Pass	
o-Xylene	%	104			70-130	Pass	
Xylenes - Total*	%	104			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	94			70-130	Pass	
Acenaphthylene	%	98			70-130	Pass	
Anthracene	%	100			70-130	Pass	
Benz(a)anthracene	%	97			70-130	Pass	
Benzo(a)pyrene	%	99			70-130	Pass	
Benzo(b&j)fluoranthene	%	112			70-130	Pass	
Benzo(g.h.i)perylene	%	98			70-130	Pass	
Benzo(k)fluoranthene	%	103			70-130	Pass	
Chrysene	%	92			70-130	Pass	
Dibenz(a.h)anthracene	%	101			70-130	Pass	
Fluoranthene	%	96			70-130	Pass	
Fluorene	%	103			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	100			70-130	Pass	
Naphthalene	%	96			70-130	Pass	
Phenanthrene	%	85			70-130	Pass	
Pyrene	%	96			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	97			70-130	Pass	
4.4'-DDD	%	113			70-130	Pass	
4.4'-DDE	%	105			70-130	Pass	
4.4'-DDT	%	97			70-130	Pass	
a-HCH	%	109			70-130	Pass	
Aldrin	%	103			70-130	Pass	
b-HCH	%	108			70-130	Pass	
d-HCH	%	87			70-130	Pass	
Dieldrin	%	119			70-130	Pass	
Endosulfan I	%	109			70-130	Pass	
Endosulfan II	%	109			70-130	Pass	
Endosulfan sulphate	%	72			70-130	Pass	
Endrin	%	101			70-130	Pass	
Endrin aldehyde	%	119			70-130	Pass	
Endrin ketone	%	78			70-130	Pass	
g-HCH (Lindane)	%	100			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heptachlor	%	88			70-130	Pass	
Heptachlor epoxide	%	97			70-130	Pass	
Hexachlorobenzene	%	93			70-130	Pass	
Methoxychlor	%	113			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	93			70-130	Pass	
Dimethoate	%	101			70-130	Pass	
Ethion	%	130			70-130	Pass	
Fenitrothion	%	127			70-130	Pass	
Methyl parathion	%	114			70-130	Pass	
Mevinphos	%	128			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	95			80-120	Pass	
Cadmium	%	97			80-120	Pass	
Chromium	%	100			80-120	Pass	
Copper	%	100			80-120	Pass	
Lead	%	97			80-120	Pass	
Mercury	%	99			80-120	Pass	
Nickel	%	99			80-120	Pass	
Zinc	%	97			80-120	Pass	
LCS - % Recovery							
Chloride	%	81			70-130	Pass	
Conductivity (1:5 aqueous extract at 25°C as rec.)	%	123			70-130	Pass	
Sulphate (as SO4)	%	91			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	S21-De45845	NCP	%	107			70-130	Pass	
TRH C10-C14	S21-De45830	NCP	%	96			70-130	Pass	
Naphthalene	S21-De45845	NCP	%	93			70-130	Pass	
TRH C6-C10	S21-De45845	NCP	%	111			70-130	Pass	
TRH >C10-C16	S21-De45830	NCP	%	101			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S21-De45845	NCP	%	101			70-130	Pass	
Toluene	S21-De45845	NCP	%	94			70-130	Pass	
Ethylbenzene	S21-De45845	NCP	%	94			70-130	Pass	
m&p-Xylenes	S21-De45845	NCP	%	93			70-130	Pass	
o-Xylene	S21-De45845	NCP	%	94			70-130	Pass	
Xylenes - Total*	S21-De45845	NCP	%	93			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-De45862	NCP	%	91			70-130	Pass	
Acenaphthylene	S21-De45862	NCP	%	93			70-130	Pass	
Anthracene	S21-De45862	NCP	%	93			70-130	Pass	
Benz(a)anthracene	S21-De45862	NCP	%	91			70-130	Pass	
Benzo(a)pyrene	S21-De45862	NCP	%	93			70-130	Pass	
Benzo(b&j)fluoranthene	S21-De45862	NCP	%	91			70-130	Pass	
Benzo(g.h.i)perylene	S21-De45862	NCP	%	88			70-130	Pass	
Benzo(k)fluoranthene	S21-De45862	NCP	%	98			70-130	Pass	
Chrysene	S21-De45862	NCP	%	86			70-130	Pass	
Dibenz(a.h)anthracene	S21-De45862	NCP	%	89			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Fluoranthene	S21-De45862	NCP	%	89			70-130	Pass	
Fluorene	S21-De45862	NCP	%	98			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-De45862	NCP	%	90			70-130	Pass	
Naphthalene	S21-De45862	NCP	%	92			70-130	Pass	
Phenanthrene	S21-De45862	NCP	%	86			70-130	Pass	
Pyrene	S21-De45862	NCP	%	89			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S21-De45862	NCP	%	100			70-130	Pass	
4.4'-DDD	S21-De45862	NCP	%	117			70-130	Pass	
4.4'-DDE	S21-De45862	NCP	%	107			70-130	Pass	
4.4'-DDT	S21-De45862	NCP	%	89			70-130	Pass	
a-HCH	S21-De45862	NCP	%	112			70-130	Pass	
Aldrin	S21-De45862	NCP	%	104			70-130	Pass	
b-HCH	S21-De45862	NCP	%	107			70-130	Pass	
d-HCH	S21-De45862	NCP	%	90			70-130	Pass	
Dieldrin	S21-De45862	NCP	%	116			70-130	Pass	
Endosulfan I	S21-De45862	NCP	%	114			70-130	Pass	
Endosulfan II	S21-De45862	NCP	%	109			70-130	Pass	
Endosulfan sulphate	S21-De45862	NCP	%	73			70-130	Pass	
Endrin	S21-De38215	NCP	%	90			70-130	Pass	
Endrin ketone	S21-De45862	NCP	%	80			70-130	Pass	
g-HCH (Lindane)	S21-De45862	NCP	%	102			70-130	Pass	
Heptachlor	S21-De45862	NCP	%	87			70-130	Pass	
Heptachlor epoxide	S21-De45862	NCP	%	100			70-130	Pass	
Hexachlorobenzene	S21-De45862	NCP	%	98			70-130	Pass	
Methoxychlor	S21-De38215	NCP	%	102			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Diazinon	S21-De38215	NCP	%	78			70-130	Pass	
Dimethoate	S21-De38215	NCP	%	81			70-130	Pass	
Ethion	S21-De38215	NCP	%	103			70-130	Pass	
Fenitrothion	S21-De38215	NCP	%	101			70-130	Pass	
Mevinphos	S21-De38215	NCP	%	107			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-De46779	NCP	%	97			75-125	Pass	
Cadmium	S21-De46779	NCP	%	100			75-125	Pass	
Chromium	S21-De46779	NCP	%	101			75-125	Pass	
Copper	S21-De46779	NCP	%	101			75-125	Pass	
Lead	S21-De46779	NCP	%	97			75-125	Pass	
Mercury	S21-De46779	NCP	%	95			75-125	Pass	
Nickel	S21-De46779	NCP	%	101			75-125	Pass	
Zinc	S21-De46779	NCP	%	98			75-125	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-De45854	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	W21-De42603	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	W21-De42603	NCP	mg/kg	52	< 50	32	30%	Fail	Q15
TRH C29-C36	W21-De42603	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Naphthalene	S21-De45854	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-De45854	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	W21-De42603	NCP	mg/kg	< 50	< 50	<1	30%	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 >C16-C34	W21-De42603	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	W21-De42603	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-De45854	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-De45854	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-De45854	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-De45854	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-De45854	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-De45854	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-De45861	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-De45861	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-De45861	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-De45861	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-De45861	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-De45861	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-De45861	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-De45861	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-De45861	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-De45861	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-De45861	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-De45861	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-De45861	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-De45861	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-De45861	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-De45861	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S21-De45861	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S21-De45861	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S21-De45861	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S21-De45861	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	S21-De45861	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S21-De45861	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	S21-De45861	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	S21-De45861	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S21-De45861	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S21-De45861	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S21-De45861	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S21-De45861	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S21-De45861	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S21-De45861	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S21-De45861	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	S21-De45861	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S21-De45861	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S21-De45861	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S21-De45861	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S21-De45861	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	S21-De45861	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	N21-De38118	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	N21-De38118	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	N21-De38118	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	N21-De38118	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	N21-De38118	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	N21-De38118	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	N21-De38118	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	N21-De38118	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	N21-De38118	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	N21-De38118	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	N21-De38118	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	N21-De38118	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	N21-De38118	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	N21-De38118	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	N21-De38118	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	N21-De38118	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	N21-De38118	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	N21-De38118	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	N21-De38118	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	N21-De38118	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	N21-De38118	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	N21-De38118	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	N21-De38118	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	N21-De38118	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	N21-De38118	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	N21-De38118	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	N21-De38118	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	N21-De38118	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	N21-De38118	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	N21-De38118	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	N21-De38118	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	N21-De38118	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	N21-De38118	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	N21-De38118	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-De46778	NCP	mg/kg	6.1	7.4	20	30%	Pass	
Cadmium	S21-De46778	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-De46778	NCP	mg/kg	14	17	19	30%	Pass	
Copper	S21-De46778	NCP	mg/kg	18	18	1.0	30%	Pass	
Lead	S21-De46778	NCP	mg/kg	38	35	8.0	30%	Pass	
Mercury	S21-De46778	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-De46778	NCP	mg/kg	6.8	5.9	14	30%	Pass	
Zinc	S21-De46778	NCP	mg/kg	580	350	49	30%	Fail	Q15
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-De46780	NCP	%	30	28	5.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C as rec.)	S21-De46871	CP	uS/cm	21	41	64	30%	Fail	Q15
pH (1:5 Aqueous extract at 25°C as rec.)	S21-De46871	CP	pH Units	5.8	5.7	<1	30%	Pass	

Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C as rec.)	S21-De46872	CP	uS/cm	21	20	6.9	30%	Pass	
pH (1:5 Aqueous extract at 25°C as rec.)	S21-De46872	CP	pH Units	6.0	6.0	<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
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Asim Khan	Analytical Services Manager
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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NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
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Attention: **Hayden Nancarrow**

Report **851699-S**
Project name
Project ID 21.1994 DSI
Received Date Dec 17, 2021

Client Sample ID			**SR1**	**SR2**	**TP37**	**TP83**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S21-De46982**	**S21-De46983**	**S21-De46984**	**S21-De46985**
Date Sampled			**Dec 16, 2021**	**Dec 16, 2021**	**Dec 16, 2021**	**Dec 16, 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	%	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	-	-	-

Client Sample ID			SR1	SR2	TP37	TP83
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De46982	S21-De46983	S21-De46984	S21-De46985
Date Sampled			Dec 16, 2021	Dec 16, 2021	Dec 16, 2021	Dec 16, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	%	100	-	-	-
p-Terphenyl-d14 (surr.)	1	%	104	-	-	-
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	-	-	-
Dibutylchlorendate (surr.)	1	%	135	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	100	-	-	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	-	-	-
Bolstar	0.2	mg/kg	< 0.2	-	-	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	-	-	-
Chlorpyrifos	0.2	mg/kg	< 0.2	-	-	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	-	-	-
Coumaphos	2	mg/kg	< 2	-	-	-
Demeton-S	0.2	mg/kg	< 0.2	-	-	-
Demeton-O	0.2	mg/kg	< 0.2	-	-	-
Diazinon	0.2	mg/kg	< 0.2	-	-	-
Dichlorvos	0.2	mg/kg	< 0.2	-	-	-
Dimethoate	0.2	mg/kg	< 0.2	-	-	-

Client Sample ID			SR1	SR2	TP37	TP83
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De46982	S21-De46983	S21-De46984	S21-De46985
Date Sampled			Dec 16, 2021	Dec 16, 2021	Dec 16, 2021	Dec 16, 2021
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Disulfoton	0.2	mg/kg	< 0.2	-	-	-
EPN	0.2	mg/kg	< 0.2	-	-	-
Ethion	0.2	mg/kg	< 0.2	-	-	-
Ethoprop	0.2	mg/kg	< 0.2	-	-	-
Ethyl parathion	0.2	mg/kg	< 0.2	-	-	-
Fenitrothion	0.2	mg/kg	< 0.2	-	-	-
Fensulfothion	0.2	mg/kg	< 0.2	-	-	-
Fenthion	0.2	mg/kg	< 0.2	-	-	-
Malathion	0.2	mg/kg	< 0.2	-	-	-
Merphos	0.2	mg/kg	< 0.2	-	-	-
Methyl parathion	0.2	mg/kg	< 0.2	-	-	-
Mevinphos	0.2	mg/kg	< 0.2	-	-	-
Monocrotophos	2	mg/kg	< 2	-	-	-
Naled	0.2	mg/kg	< 0.2	-	-	-
Omethoate	2	mg/kg	< 2	-	-	-
Phorate	0.2	mg/kg	< 0.2	-	-	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	-	-	-
Pyrazophos	0.2	mg/kg	< 0.2	-	-	-
Ronnel	0.2	mg/kg	< 0.2	-	-	-
Terbufos	0.2	mg/kg	< 0.2	-	-	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	-	-	-
Tokuthion	0.2	mg/kg	< 0.2	-	-	-
Trichloronate	0.2	mg/kg	< 0.2	-	-	-
Triphenylphosphate (surr.)	1	%	135	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	9.3	-	-	-
Cadmium	0.4	mg/kg	< 0.4	-	-	-
Chromium	5	mg/kg	23	-	-	-
Copper	5	mg/kg	43	-	-	-
Lead	5	mg/kg	16	-	-	-
Mercury	0.1	mg/kg	< 0.1	-	-	-
Nickel	5	mg/kg	8.9	-	-	-
Zinc	5	mg/kg	52	-	-	-
% Moisture	1	%	21	21	16	26
Chloride	10	mg/kg	-	13	14	< 10
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	15	25	34
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	6.1	6.2	6.2
Sulphate (as SO4)	10	mg/kg	-	28	30	21

Client Sample ID			TP77	TP92
Sample Matrix			Soil	Soil
Eurofins Sample No.			S21-De46986	S21-De46987
Date Sampled			Dec 16, 2021	Dec 16, 2021
Test/Reference	LOR	Unit		
% Moisture	1	%	23	21
Chloride	10	mg/kg	< 10	< 10
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	26	54
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	6.5	7.1
Sulphate (as SO4)	10	mg/kg	< 10	51

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	Sydney	Dec 21, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Dec 21, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Dec 21, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Dec 21, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Dec 21, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Sydney	Dec 21, 2021	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Organophosphorus Pesticides	Sydney	Dec 21, 2021	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS			
Metals M8	Sydney	Dec 21, 2021	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Sydney	Dec 20, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			
Chloride	Sydney	Dec 21, 2021	28 Days
- Method: In-house method LTM-INO-4270 Anions by Ion Chromatography			
Conductivity (1:5 aqueous extract at 25°C as rec.)	Sydney	Dec 21, 2021	7 Days
- Method: LTM-INO-4030 Conductivity			
pH (1:5 Aqueous extract at 25°C as rec.)	Sydney	Dec 23, 2021	7 Days
- Method: LTM-GEN-7090 pH by ISE			
Sulphate (as SO4)	Sydney	Dec 21, 2021	28 Days
- Method: In-house method LTM-INO-4270 Sulphate by Ion Chromatograph			

eurofins | Environment Testing

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Received: Dec 17, 2021 12:48 PM
Due: Dec 24, 2021
Priority: 5 Day
Contact Name: Hayden Nancarrow

Eurofins Analytical Services Manager : Asim Khan

Sample Detail						Chloride	Conductivity (1:5 aqueous extract at 25°C as rec.)	pH (1:5 Aqueous extract at 25°C as rec.)	Sulphate (as SO4)	Moisture Set	Eurofins Suite B10
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	SR1	Dec 16, 2021		Soil	S21-De46982					X	X
2	SR2	Dec 16, 2021		Soil	S21-De46983	X	X	X	X	X	
3	TP37	Dec 16, 2021		Soil	S21-De46984	X	X	X	X	X	
4	TP83	Dec 16, 2021		Soil	S21-De46985	X	X	X	X	X	
5	TP77	Dec 16, 2021		Soil	S21-De46986	X	X	X	X	X	
6	TP92	Dec 16, 2021		Soil	S21-De46987	X	X	X	X	X	
Test Counts						5	5	5	5	6	1

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/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 5.4
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% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

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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	
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							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	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							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Conductivity (1:5 aqueous extract at 25°C as rec.)	uS/cm	< 10			10	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	104			70-130	Pass	
TRH C10-C14	%	86			70-130	Pass	
Naphthalene	%	117			70-130	Pass	
TRH C6-C10	%	102			70-130	Pass	
TRH >C10-C16	%	85			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	97			70-130	Pass	
Toluene	%	94			70-130	Pass	
Ethylbenzene	%	96			70-130	Pass	
m&p-Xylenes	%	99			70-130	Pass	
o-Xylene	%	99			70-130	Pass	
Xylenes - Total*	%	99			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	90			70-130	Pass	
Acenaphthylene	%	89			70-130	Pass	
Anthracene	%	79			70-130	Pass	
Benz(a)anthracene	%	100			70-130	Pass	
Benzo(a)pyrene	%	90			70-130	Pass	
Benzo(b&j)fluoranthene	%	115			70-130	Pass	
Benzo(g.h.i)perylene	%	79			70-130	Pass	
Benzo(k)fluoranthene	%	74			70-130	Pass	
Chrysene	%	103			70-130	Pass	
Dibenz(a.h)anthracene	%	81			70-130	Pass	
Fluoranthene	%	88			70-130	Pass	
Fluorene	%	95			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	82			70-130	Pass	
Naphthalene	%	93			70-130	Pass	
Phenanthrene	%	90			70-130	Pass	
Pyrene	%	88			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	83			70-130	Pass	
4.4'-DDD	%	95			70-130	Pass	
4.4'-DDE	%	93			70-130	Pass	
4.4'-DDT	%	87			70-130	Pass	
a-HCH	%	79			70-130	Pass	
Aldrin	%	93			70-130	Pass	
b-HCH	%	91			70-130	Pass	
d-HCH	%	72			70-130	Pass	
Dieldrin	%	84			70-130	Pass	
Endosulfan I	%	81			70-130	Pass	
Endosulfan II	%	82			70-130	Pass	
Endosulfan sulphate	%	78			70-130	Pass	
Endrin	%	104			70-130	Pass	
Endrin aldehyde	%	82			70-130	Pass	
Endrin ketone	%	73			70-130	Pass	
g-HCH (Lindane)	%	80			70-130	Pass	
Heptachlor	%	92			70-130	Pass	
Heptachlor epoxide	%	85			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Hexachlorobenzene	%	83			70-130	Pass	
Methoxychlor	%	96			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	101			70-130	Pass	
Dimethoate	%	86			70-130	Pass	
Ethion	%	115			70-130	Pass	
Fenitrothion	%	87			70-130	Pass	
Methyl parathion	%	103			70-130	Pass	
Mevinphos	%	116			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	106			80-120	Pass	
Cadmium	%	107			80-120	Pass	
Chromium	%	109			80-120	Pass	
Copper	%	108			80-120	Pass	
Lead	%	105			80-120	Pass	
Mercury	%	107			80-120	Pass	
Nickel	%	109			80-120	Pass	
Zinc	%	104			80-120	Pass	
LCS - % Recovery							
Chloride	%	81			70-130	Pass	
Conductivity (1:5 aqueous extract at 25°C as rec.)	%	123			70-130	Pass	
Sulphate (as SO4)	%	91			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	S21-De41001	NCP	%	107			70-130	Pass	
TRH C10-C14	S21-De47697	NCP	%	82			70-130	Pass	
Naphthalene	S21-De41001	NCP	%	96			70-130	Pass	
TRH C6-C10	S21-De41001	NCP	%	111			70-130	Pass	
TRH >C10-C16	S21-De47697	NCP	%	78			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S21-De41001	NCP	%	92			70-130	Pass	
Toluene	S21-De41001	NCP	%	81			70-130	Pass	
Ethylbenzene	S21-De41001	NCP	%	72			70-130	Pass	
m&p-Xylenes	S21-De41001	NCP	%	77			70-130	Pass	
o-Xylene	S21-De41001	NCP	%	73			70-130	Pass	
Xylenes - Total*	S21-De41001	NCP	%	76			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-De47698	NCP	%	95			70-130	Pass	
Acenaphthylene	S21-De47698	NCP	%	91			70-130	Pass	
Anthracene	S21-De47698	NCP	%	94			70-130	Pass	
Benz(a)anthracene	S21-De47698	NCP	%	85			70-130	Pass	
Benzo(a)pyrene	S21-De47698	NCP	%	99			70-130	Pass	
Benzo(b&j)fluoranthene	S21-De47698	NCP	%	98			70-130	Pass	
Benzo(g.h.i)perylene	S21-De47698	NCP	%	94			70-130	Pass	
Benzo(k)fluoranthene	S21-De47698	NCP	%	100			70-130	Pass	
Chrysene	S21-De47698	NCP	%	101			70-130	Pass	
Dibenz(a.h)anthracene	S21-De47698	NCP	%	99			70-130	Pass	
Fluoranthene	S21-De47698	NCP	%	92			70-130	Pass	
Fluorene	S21-De47698	NCP	%	98			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-De47698	NCP	%	96			70-130	Pass	
Naphthalene	S21-De47698	NCP	%	97			70-130	Pass	
Phenanthrene	S21-De47698	NCP	%	89			70-130	Pass	
Pyrene	S21-De47698	NCP	%	90			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S21-De47698	NCP	%	90			70-130	Pass	
4.4'-DDD	S21-De47698	NCP	%	84			70-130	Pass	
4.4'-DDE	S21-De47698	NCP	%	100			70-130	Pass	
4.4'-DDT	S21-De47698	NCP	%	80			70-130	Pass	
a-HCH	S21-De47698	NCP	%	86			70-130	Pass	
Aldrin	S21-De47698	NCP	%	97			70-130	Pass	
b-HCH	S21-De47698	NCP	%	88			70-130	Pass	
d-HCH	S21-De47698	NCP	%	84			70-130	Pass	
Dieldrin	S21-De47698	NCP	%	87			70-130	Pass	
Endosulfan I	S21-De47698	NCP	%	94			70-130	Pass	
Endosulfan II	S21-De47698	NCP	%	78			70-130	Pass	
Endosulfan sulphate	S21-De47698	NCP	%	80			70-130	Pass	
Endrin	S21-De47698	NCP	%	99			70-130	Pass	
Endrin aldehyde	S21-De50200	NCP	%	70			70-130	Pass	
Endrin ketone	S21-De47698	NCP	%	76			70-130	Pass	
g-HCH (Lindane)	S21-De47698	NCP	%	95			70-130	Pass	
Heptachlor	S21-De47698	NCP	%	100			70-130	Pass	
Heptachlor epoxide	S21-De47698	NCP	%	93			70-130	Pass	
Hexachlorobenzene	S21-De47698	NCP	%	91			70-130	Pass	
Methoxychlor	S21-De47698	NCP	%	90			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Diazinon	S21-De47698	NCP	%	106			70-130	Pass	
Dimethoate	S21-De47698	NCP	%	39			70-130	Fail	Q08
Ethion	S21-De47698	NCP	%	115			70-130	Pass	
Fenitrothion	S21-De47698	NCP	%	95			70-130	Pass	
Methyl parathion	S21-De47698	NCP	%	115			70-130	Pass	
Mevinphos	S21-De47698	NCP	%	102			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-De47697	NCP	%	112			75-125	Pass	
Cadmium	S21-De47697	NCP	%	107			75-125	Pass	
Chromium	S21-De47697	NCP	%	109			75-125	Pass	
Copper	S21-De47697	NCP	%	104			75-125	Pass	
Lead	S21-De47697	NCP	%	101			75-125	Pass	
Mercury	S21-De47697	NCP	%	88			75-125	Pass	
Nickel	S21-De47697	NCP	%	109			75-125	Pass	
Zinc	S21-De47697	NCP	%	114			75-125	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-De46982	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Naphthalene	S21-De46982	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-De46982	CP	mg/kg	< 20	< 20	<1	30%	Pass	

Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-De46982	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-De46982	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-De46982	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-De46982	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-De46982	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-De46982	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	W21-De42603	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	W21-De42603	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	W21-De42603	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	W21-De42603	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	W21-De42603	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	W21-De42603	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	W21-De42603	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	W21-De42603	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	W21-De42603	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	W21-De42603	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	W21-De42603	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	W21-De42603	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	W21-De42603	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	W21-De42603	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	W21-De42603	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	W21-De42603	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	W21-De42603	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	W21-De42603	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	W21-De42603	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	W21-De42603	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	W21-De42603	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	W21-De42603	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	W21-De42603	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	W21-De42603	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	W21-De42603	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	W21-De42603	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	W21-De42603	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	W21-De42603	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	W21-De42603	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	W21-De42603	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	W21-De42603	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	W21-De42603	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	W21-De42603	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	W21-De42603	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	W21-De42603	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	W21-De42603	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	W21-De42603	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	W21-De42603	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	W21-De42603	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	W21-De42603	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	W21-De42603	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	W21-De42603	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Coumaphos	W21-De42603	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	W21-De42603	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	W21-De42603	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	W21-De42603	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	W21-De42603	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	W21-De42603	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	W21-De42603	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	W21-De42603	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	W21-De42603	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	W21-De42603	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	W21-De42603	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	W21-De42603	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	W21-De42603	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	W21-De42603	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	W21-De42603	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	W21-De42603	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	W21-De42603	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	W21-De42603	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	W21-De42603	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	W21-De42603	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	W21-De42603	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	W21-De42603	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	W21-De42603	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	W21-De42603	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	W21-De42603	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	W21-De42603	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	W21-De42603	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	W21-De42603	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	W21-De42603	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	W21-De42604	NCP	mg/kg	7.1	4.8	37	30%	Fail	Q15
Cadmium	W21-De42604	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	W21-De42604	NCP	mg/kg	39	36	7.0	30%	Pass	
Copper	W21-De42604	NCP	mg/kg	34	32	6.0	30%	Pass	
Lead	W21-De42604	NCP	mg/kg	16	14	8.0	30%	Pass	
Mercury	W21-De42604	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	W21-De42604	NCP	mg/kg	9.2	8.1	13	30%	Pass	
Zinc	W21-De42604	NCP	mg/kg	29	25	13	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-De46092	NCP	%	3.3	3.4	4.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Chloride	S21-De47611	NCP	mg/kg	12	12	2.0	30%	Pass	
Sulphate (as SO4)	S21-De47611	NCP	mg/kg	< 10	34	120	30%	Fail	Q15
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C as rec.)	S21-De46987	CP	uS/cm	54	40	29	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
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Asim Khan	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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Unit 6/7 Millennium Court
Silverwater
NSW 2128

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: **Hayden Nancarrow**

Report **852482-S**
Project name DSI1
Project ID 21.1994
Received Date Dec 20, 2021

Client Sample ID			TP39	[G01]TP51
Sample Matrix			Soil	Soil
Eurofins Sample No.			S21-De52622	S21-De52623
Date Sampled			Not Provided[I12]	Not Provided[I12]
Test/Reference	LOR	Unit		
Chloride	10	mg/kg	15	-
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	39	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	7.7	-
Sulphate (as SO4)	10	mg/kg	< 10	-
% Moisture	1	%	16	7.0
Total Recoverable Hydrocarbons				
TRH C6-C9	20	mg/kg	-	< 20
TRH C10-C14	20	mg/kg	-	< 40
TRH C15-C28	50	mg/kg	-	360
TRH C29-C36	50	mg/kg	-	< 100
TRH C10-C36 (Total)	50	mg/kg	-	360
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	-	< 100
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 100
TRH >C16-C34	100	mg/kg	-	640
TRH >C34-C40	100	mg/kg	-	290
TRH >C10-C40 (total)*	100	mg/kg	-	930
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	%	-	58
Polycyclic Aromatic Hydrocarbons				
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	11
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	11
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	11
Acenaphthene	0.5	mg/kg	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5
Anthracene	0.5	mg/kg	-	0.6
Benz(a)anthracene	0.5	mg/kg	-	4.8

Client Sample ID			TP39	[G01]TP51
Sample Matrix			Soil	Soil
Eurofins Sample No.			S21-De52622	S21-De52623
Date Sampled			Not Provided[I12]	Not Provided[I12]
Test/Reference	LOR	Unit		
Polycyclic Aromatic Hydrocarbons				
Benzo(a)pyrene	0.5	mg/kg	-	7.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	6.0
Benzo(g.h.i)perylene	0.5	mg/kg	-	5.2
Benzo(k)fluoranthene	0.5	mg/kg	-	6.2
Chrysene	0.5	mg/kg	-	5.9
Dibenz(a.h)anthracene	0.5	mg/kg	-	1.3
Fluoranthene	0.5	mg/kg	-	10
Fluorene	0.5	mg/kg	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	4.0
Naphthalene	0.5	mg/kg	-	< 0.5
Phenanthrene	0.5	mg/kg	-	2.0
Pyrene	0.5	mg/kg	-	12
Total PAH*	0.5	mg/kg	-	65.5
2-Fluorobiphenyl (surr.)	1	%	-	102
p-Terphenyl-d14 (surr.)	1	%	-	99
Organochlorine Pesticides				
Chlordanes - Total	0.1	mg/kg	-	< 1
4.4'-DDD	0.05	mg/kg	-	< 0.5
4.4'-DDE	0.05	mg/kg	-	< 0.5
4.4'-DDT	0.05	mg/kg	-	< 0.5
a-HCH	0.05	mg/kg	-	< 0.5
Aldrin	0.05	mg/kg	-	< 0.5
b-HCH	0.05	mg/kg	-	< 0.5
d-HCH	0.05	mg/kg	-	< 0.5
Dieldrin	0.05	mg/kg	-	< 0.5
Endosulfan I	0.05	mg/kg	-	< 0.5
Endosulfan II	0.05	mg/kg	-	< 0.5
Endosulfan sulphate	0.05	mg/kg	-	< 0.5
Endrin	0.05	mg/kg	-	< 0.5
Endrin aldehyde	0.05	mg/kg	-	< 0.5
Endrin ketone	0.05	mg/kg	-	< 0.5
g-HCH (Lindane)	0.05	mg/kg	-	< 0.5
Heptachlor	0.05	mg/kg	-	< 0.5
Heptachlor epoxide	0.05	mg/kg	-	< 0.5
Hexachlorobenzene	0.05	mg/kg	-	< 0.5
Methoxychlor	0.05	mg/kg	-	< 0.5
Toxaphene	0.5	mg/kg	-	< 10
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.5
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.5
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 1
Dibutylchlorendate (surr.)	1	%	-	66
Tetrachloro-m-xylene (surr.)	1	%	-	100
Organophosphorus Pesticides				
Azinphos-methyl	0.2	mg/kg	-	< 0.5
Bolstar	0.2	mg/kg	-	< 0.5
Chlorfenvinphos	0.2	mg/kg	-	< 0.5
Chlorpyrifos	0.2	mg/kg	-	< 0.5
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.5

Client Sample ID			TP39	[G01]TP51
Sample Matrix			Soil	Soil
Eurofins Sample No.			S21-De52622	S21-De52623
Date Sampled			Not Provided[I12]	Not Provided[I12]
Test/Reference	LOR	Unit		
Organophosphorus Pesticides				
Coumaphos	2	mg/kg	-	< 5
Demeton-S	0.2	mg/kg	-	< 0.5
Demeton-O	0.2	mg/kg	-	< 0.5
Diazinon	0.2	mg/kg	-	< 0.5
Dichlorvos	0.2	mg/kg	-	< 0.5
Dimethoate	0.2	mg/kg	-	< 0.5
Disulfoton	0.2	mg/kg	-	< 0.5
EPN	0.2	mg/kg	-	< 0.5
Ethion	0.2	mg/kg	-	< 0.5
Ethoprop	0.2	mg/kg	-	< 0.5
Ethyl parathion	0.2	mg/kg	-	< 0.5
Fenitrothion	0.2	mg/kg	-	< 0.5
Fensulfothion	0.2	mg/kg	-	< 0.5
Fenthion	0.2	mg/kg	-	< 0.5
Malathion	0.2	mg/kg	-	< 0.5
Merphos	0.2	mg/kg	-	< 0.5
Methyl parathion	0.2	mg/kg	-	< 0.5
Mevinphos	0.2	mg/kg	-	< 0.5
Monocrotophos	2	mg/kg	-	< 5
Naled	0.2	mg/kg	-	< 0.5
Omethoate	2	mg/kg	-	< 5
Phorate	0.2	mg/kg	-	< 0.5
Pirimiphos-methyl	0.2	mg/kg	-	< 0.5
Pyrazophos	0.2	mg/kg	-	< 0.5
Ronnel	0.2	mg/kg	-	< 0.5
Terbufos	0.2	mg/kg	-	< 0.5
Tetrachlorvinphos	0.2	mg/kg	-	< 0.5
Tokuthion	0.2	mg/kg	-	< 0.5
Trichloronate	0.2	mg/kg	-	< 0.5
Triphenylphosphate (surr.)	1	%	-	64
Heavy Metals				
Arsenic	2	mg/kg	-	3.3
Cadmium	0.4	mg/kg	-	< 0.4
Chromium	5	mg/kg	-	19
Copper	5	mg/kg	-	67
Lead	5	mg/kg	-	28
Mercury	0.1	mg/kg	-	< 0.1
Nickel	5	mg/kg	-	35
Zinc	5	mg/kg	-	75

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
Chloride	Sydney	Dec 23, 2021	28 Days
- Method: In-house method LTM-INO-4270 Anions by Ion Chromatography			
Conductivity (1:5 aqueous extract at 25°C as rec.)	Sydney	Dec 23, 2021	7 Days
- Method: LTM-INO-4030 Conductivity			
pH (1:5 Aqueous extract at 25°C as rec.)	Sydney	Dec 23, 2021	7 Days
- Method: LTM-GEN-7090 pH by ISE			
Sulphate (as SO4)	Sydney	Dec 23, 2021	28 Days
- Method: In-house method LTM-INO-4270 Sulphate by Ion Chromatograph			
% Moisture	Sydney	Dec 22, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Dec 23, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Dec 23, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Dec 23, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Dec 23, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Dec 23, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Sydney	Dec 23, 2021	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Organophosphorus Pesticides	Sydney	Dec 23, 2021	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS			
Metals M8	Sydney	Dec 23, 2021	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			

eurofins | Environment Testing

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Project Name: DSI1
Project ID: 21.1994

Order No.:
Report #: 852482
Phone: 02 9400 7711
Fax: 02 9401 0097

Received: Dec 20, 2021 10:43 AM
Due: Dec 29, 2021
Priority: 5 Day
Contact Name: Hayden Nancarrow

Eurofins Analytical Services Manager : Asim Khan

Sample Detail						Chloride	Conductivity (1:5 aqueous extract at 25°C as rec.)	pH (1:5 Aqueous extract at 25°C as rec.)	Sulphate (as SO4)	Moisture Set	Eurofins Suite B10
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	TP39	Not Provided		Soil	S21-De52622	X	X	X	X	X	
2	TP51	Not Provided		Soil	S21-De52623					X	X
Test Counts						1	1	1	1	2	1

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/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 5.4
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% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

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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							
Chloride	mg/kg	< 10			10	Pass	
Conductivity (1:5 aqueous extract at 25°C as rec.)	uS/cm	< 10			10	Pass	
Sulphate (as SO4)	mg/kg	< 10			10	Pass	
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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-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							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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	
LCS - % Recovery							
Chloride	%	81			70-130	Pass	
Conductivity (1:5 aqueous extract at 25°C as rec.)	%	90			70-130	Pass	
Sulphate (as SO4)	%	91			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	88			70-130	Pass	
TRH C10-C14	%	126			70-130	Pass	
Naphthalene	%	96			70-130	Pass	
TRH C6-C10	%	87			70-130	Pass	
TRH >C10-C16	%	120			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	101			70-130	Pass	
Toluene	%	88			70-130	Pass	
Ethylbenzene	%	92			70-130	Pass	
m&p-Xylenes	%	90			70-130	Pass	
o-Xylene	%	95			70-130	Pass	
Xylenes - Total*	%	92			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	88			70-130	Pass	
Acenaphthylene	%	86			70-130	Pass	
Anthracene	%	89			70-130	Pass	
Benz(a)anthracene	%	81			70-130	Pass	
Benzo(a)pyrene	%	88			70-130	Pass	
Benzo(b&j)fluoranthene	%	92			70-130	Pass	
Benzo(g.h.i)perylene	%	91			70-130	Pass	
Benzo(k)fluoranthene	%	93			70-130	Pass	
Chrysene	%	82			70-130	Pass	
Dibenz(a.h)anthracene	%	96			70-130	Pass	
Fluoranthene	%	87			70-130	Pass	
Fluorene	%	96			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	92			70-130	Pass	
Naphthalene	%	86			70-130	Pass	
Phenanthrene	%	90			70-130	Pass	
Pyrene	%	87			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	92			70-130	Pass	
4.4'-DDD	%	84			70-130	Pass	
4.4'-DDE	%	99			70-130	Pass	
4.4'-DDT	%	84			70-130	Pass	
a-HCH	%	85			70-130	Pass	
Aldrin	%	96			70-130	Pass	
b-HCH	%	90			70-130	Pass	
d-HCH	%	89			70-130	Pass	
Dieldrin	%	90			70-130	Pass	
Endosulfan I	%	88			70-130	Pass	
Endosulfan II	%	85			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan sulphate	%	84			70-130	Pass	
Endrin	%	102			70-130	Pass	
Endrin aldehyde	%	80			70-130	Pass	
Endrin ketone	%	82			70-130	Pass	
g-HCH (Lindane)	%	95			70-130	Pass	
Heptachlor	%	97			70-130	Pass	
Heptachlor epoxide	%	91			70-130	Pass	
Hexachlorobenzene	%	97			70-130	Pass	
Methoxychlor	%	77			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	101			70-130	Pass	
Dimethoate	%	100			70-130	Pass	
Ethion	%	91			70-130	Pass	
Fenitrothion	%	91			70-130	Pass	
Methyl parathion	%	105			70-130	Pass	
Mevinphos	%	106			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	88			80-120	Pass	
Cadmium	%	90			80-120	Pass	
Chromium	%	86			80-120	Pass	
Copper	%	85			80-120	Pass	
Lead	%	89			80-120	Pass	
Mercury	%	111			80-120	Pass	
Nickel	%	85			80-120	Pass	
Zinc	%	85			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
				Result 1					
Chloride	S21-De52070	NCP	%	119			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	S21-De45834	NCP	%	78			70-130	Pass	
TRH C10-C14	S21-De54644	NCP	%	87			70-130	Pass	
Naphthalene	S21-De45834	NCP	%	86			70-130	Pass	
TRH C6-C10	S21-De45834	NCP	%	78			70-130	Pass	
TRH >C10-C16	S21-De54644	NCP	%	86			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S21-De45834	NCP	%	101			70-130	Pass	
Toluene	S21-De45834	NCP	%	77			70-130	Pass	
Ethylbenzene	S21-De45834	NCP	%	78			70-130	Pass	
m&p-Xylenes	S21-De45834	NCP	%	75			70-130	Pass	
o-Xylene	S21-De45834	NCP	%	79			70-130	Pass	
Xylenes - Total*	S21-De45834	NCP	%	76			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-De49527	NCP	%	104			70-130	Pass	
Acenaphthylene	S21-De49527	NCP	%	105			70-130	Pass	
Anthracene	S21-De49527	NCP	%	104			70-130	Pass	
Benz(a)anthracene	S21-De49527	NCP	%	96			70-130	Pass	
Benzo(a)pyrene	S21-De49527	NCP	%	103			70-130	Pass	
Benzo(b&j)fluoranthene	S21-De49527	NCP	%	111			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(g.h.i)perylene	S21-De49527	NCP	%	89			70-130	Pass	
Benzo(k)fluoranthene	S21-De49527	NCP	%	110			70-130	Pass	
Chrysene	S21-De49527	NCP	%	98			70-130	Pass	
Dibenz(a.h)anthracene	S21-De49527	NCP	%	100			70-130	Pass	
Fluoranthene	S21-De49527	NCP	%	103			70-130	Pass	
Fluorene	S21-De49527	NCP	%	112			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-De49527	NCP	%	96			70-130	Pass	
Naphthalene	S21-De49527	NCP	%	103			70-130	Pass	
Phenanthrene	S21-De49527	NCP	%	106			70-130	Pass	
Pyrene	S21-De49527	NCP	%	103			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S21-De49527	NCP	%	111			70-130	Pass	
4.4'-DDD	S21-De49527	NCP	%	104			70-130	Pass	
4.4'-DDE	S21-De49527	NCP	%	119			70-130	Pass	
4.4'-DDT	S21-De49527	NCP	%	99			70-130	Pass	
a-HCH	S21-De49527	NCP	%	105			70-130	Pass	
Aldrin	S21-De49527	NCP	%	116			70-130	Pass	
b-HCH	S21-De49527	NCP	%	112			70-130	Pass	
d-HCH	S21-De49527	NCP	%	107			70-130	Pass	
Dieldrin	S21-De49527	NCP	%	108			70-130	Pass	
Endosulfan I	S21-De49527	NCP	%	110			70-130	Pass	
Endosulfan II	S21-De49527	NCP	%	103			70-130	Pass	
Endosulfan sulphate	S21-De49527	NCP	%	100			70-130	Pass	
Endrin	S21-De49527	NCP	%	116			70-130	Pass	
Endrin ketone	S21-De49527	NCP	%	100			70-130	Pass	
g-HCH (Lindane)	S21-De49527	NCP	%	112			70-130	Pass	
Heptachlor	S21-De49527	NCP	%	116			70-130	Pass	
Heptachlor epoxide	S21-De49527	NCP	%	111			70-130	Pass	
Hexachlorobenzene	S21-De49527	NCP	%	117			70-130	Pass	
Methoxychlor	S21-De49527	NCP	%	92			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Diazinon	S21-De49527	NCP	%	118			70-130	Pass	
Dimethoate	S21-De49527	NCP	%	103			70-130	Pass	
Ethion	S21-De49527	NCP	%	98			70-130	Pass	
Fenitrothion	S21-De49527	NCP	%	103			70-130	Pass	
Methyl parathion	S21-De49527	NCP	%	114			70-130	Pass	
Mevinphos	S21-De49527	NCP	%	116			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-De53011	NCP	%	102			75-125	Pass	
Cadmium	S21-De53011	NCP	%	99			75-125	Pass	
Chromium	S21-De53011	NCP	%	96			75-125	Pass	
Copper	S21-De53011	NCP	%	91			75-125	Pass	
Lead	S21-De53011	NCP	%	117			75-125	Pass	
Mercury	S21-De53011	NCP	%	98			75-125	Pass	
Nickel	S21-De53011	NCP	%	97			75-125	Pass	
Zinc	S21-De53011	NCP	%	91			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
				Result 1	Result 2	RPD			
pH (1:5 Aqueous extract at 25°C as rec.)	S21-De52072	NCP	pH Units	7.3	7.5	<1	30%	Pass	
% Moisture	S21-De51891	NCP	%	11	10	12	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S21-De54681	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S21-De54643	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-De54643	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-De54643	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Naphthalene	S21-De54681	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-De54681	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S21-De54643	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-De54643	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-De54643	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-De54681	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-De54681	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-De54681	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-De54681	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-De54681	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-De54681	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S21-De51655	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
4.4'-DDD	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4.4'-DDE	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4.4'-DDT	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
a-HCH	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aldrin	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
b-HCH	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
d-HCH	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dieldrin	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endosulfan I	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endosulfan II	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endosulfan sulphate	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endrin	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endrin aldehyde	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endrin ketone	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
g-HCH (Lindane)	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Heptachlor	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Heptachlor epoxide	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Hexachlorobenzene	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methoxychlor	S21-De51655	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Toxaphene	S21-De51655	NCP	mg/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	S21-De49526	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	S21-De49526	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	S21-De49526	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	S21-De49526	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	S21-De49526	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	S21-De49526	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	S21-De49526	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	S21-De49526	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	S21-De49526	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	S21-De49526	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	S21-De49526	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	S21-De49526	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	S21-De49526	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	S21-De49526	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	S21-De49526	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	S21-De49526	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	S21-De49526	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	S21-De49526	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	S21-De49526	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	S21-De49526	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	S21-De49526	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	S21-De49526	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	S21-De49526	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	S21-De49526	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	S21-De49526	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	S21-De49526	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	S21-De49526	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	S21-De49526	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	S21-De49526	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	S21-De49526	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	S21-De49526	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	S21-De49526	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	S21-De49526	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	S21-De49526	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-De52623	CP	mg/kg	3.3	4.4	28	30%	Pass	
Cadmium	S21-De52623	CP	mg/kg	< 0.4	0.8	160	30%	Fail	Q15
Chromium	S21-De52623	CP	mg/kg	19	20	5.0	30%	Pass	
Copper	S21-De52623	CP	mg/kg	67	72	7.0	30%	Pass	
Lead	S21-De52623	CP	mg/kg	28	27	5.0	30%	Pass	
Mercury	S21-De52623	CP	mg/kg	< 0.1	0.1	72	30%	Fail	Q15
Nickel	S21-De52623	CP	mg/kg	35	38	7.0	30%	Pass	
Zinc	S21-De53010	NCP	mg/kg	29	30	2.0	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	N/A
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
G01	The LORs have been raised due to matrix interference
I12	Where sampling date has not been provided, Eurofins | Environment Testing is not able to determine whether analysis has been performed within recommended holding times.
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Asim Khan	Analytical Services Manager
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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Unit 6/7 Millennium Court
Silverwater
NSW 2128

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: **Hayden Nancarrow**

Report **852775-S**
Project name 200 ALDINGTON ROAD KEMPS CREEK
Project ID 21.1994.DSI1
Received Date Dec 21, 2021

Client Sample ID			[G01]21.1994.SR	21.1994.TP47-SALINITY	21.1994.TP24-SALINITY
Sample Matrix			**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S21-De55158**	**S21-De55159**	**S21-De55160**
Date Sampled			**Dec 20, 2021**	**Dec 20, 2021**	**Dec 20, 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	%	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	-	-

Client Sample ID			[G01]21.1994.SR	21.1994.TP47-SALINITY	21.1994.TP24-SALINITY
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S21-De55158	S21-De55159	S21-De55160
Date Sampled			Dec 20, 2021	Dec 20, 2021	Dec 20, 2021
Test/Reference	LOR	Unit			
Polycyclic Aromatic Hydrocarbons					
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	%	98	-	-
p-Terphenyl-d14 (surr.)	1	%	85	-	-
Organochlorine Pesticides					
Chlordanes - Total	0.1	mg/kg	< 1	-	-
4.4'-DDD	0.05	mg/kg	< 0.5	-	-
4.4'-DDE	0.05	mg/kg	< 0.5	-	-
4.4'-DDT	0.05	mg/kg	< 0.5	-	-
a-HCH	0.05	mg/kg	< 0.5	-	-
Aldrin	0.05	mg/kg	< 0.5	-	-
b-HCH	0.05	mg/kg	< 0.5	-	-
d-HCH	0.05	mg/kg	< 0.5	-	-
Dieldrin	0.05	mg/kg	< 0.5	-	-
Endosulfan I	0.05	mg/kg	< 0.5	-	-
Endosulfan II	0.05	mg/kg	< 0.5	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.5	-	-
Endrin	0.05	mg/kg	< 0.5	-	-
Endrin aldehyde	0.05	mg/kg	< 0.5	-	-
Endrin ketone	0.05	mg/kg	< 0.5	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.5	-	-
Heptachlor	0.05	mg/kg	< 0.5	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.5	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.5	-	-
Methoxychlor	0.05	mg/kg	< 0.5	-	-
Toxaphene	0.5	mg/kg	< 1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.5	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.5	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 1	-	-
Dibutylchlorendate (surr.)	1	%	INT	-	-
Tetrachloro-m-xylene (surr.)	1	%	100	-	-
Organophosphorus Pesticides					
Azinphos-methyl	0.2	mg/kg	< 0.5	-	-
Bolstar	0.2	mg/kg	< 0.5	-	-
Chlorfenvinphos	0.2	mg/kg	< 0.5	-	-
Chlorpyrifos	0.2	mg/kg	< 0.5	-	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.5	-	-
Coumaphos	2	mg/kg	< 5	-	-
Demeton-S	0.2	mg/kg	< 0.5	-	-
Demeton-O	0.2	mg/kg	< 0.5	-	-
Diazinon	0.2	mg/kg	< 0.5	-	-
Dichlorvos	0.2	mg/kg	< 0.5	-	-
Dimethoate	0.2	mg/kg	< 0.5	-	-

Client Sample ID			[G01]21.1994.SR	21.1994.TP47-SALINITY	21.1994.TP24-SALINITY
Sample Matrix			**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S21-De55158**	**S21-De55159**	**S21-De55160**
Date Sampled			**Dec 20, 2021**	**Dec 20, 2021**	**Dec 20, 2021**
Test/Reference	LOR	Unit			
Organophosphorus Pesticides					
Disulfoton	0.2	mg/kg	< 0.5	-	-
EPN	0.2	mg/kg	< 0.5	-	-
Ethion	0.2	mg/kg	< 0.5	-	-
Ethoprop	0.2	mg/kg	< 0.5	-	-
Ethyl parathion	0.2	mg/kg	< 0.5	-	-
Fenitrothion	0.2	mg/kg	< 0.5	-	-
Fensulfothion	0.2	mg/kg	< 0.5	-	-
Fenthion	0.2	mg/kg	< 0.5	-	-
Malathion	0.2	mg/kg	< 0.5	-	-
Merphos	0.2	mg/kg	< 0.5	-	-
Methyl parathion	0.2	mg/kg	< 0.5	-	-
Mevinphos	0.2	mg/kg	< 0.5	-	-
Monocrotophos	2	mg/kg	< 5	-	-
Naled	0.2	mg/kg	< 0.5	-	-
Omethoate	2	mg/kg	< 5	-	-
Phorate	0.2	mg/kg	< 0.5	-	-
Pirimiphos-methyl	0.2	mg/kg	< 0.5	-	-
Pyrazophos	0.2	mg/kg	< 0.5	-	-
Ronnel	0.2	mg/kg	< 0.5	-	-
Terbufos	0.2	mg/kg	< 0.5	-	-
Tetrachlorvinphos	0.2	mg/kg	< 0.5	-	-
Tokuthion	0.2	mg/kg	< 0.5	-	-
Trichloronate	0.2	mg/kg	< 0.5	-	-
Triphenylphosphate (surr.)	1	%	55	-	-
Heavy Metals					
Arsenic	2	mg/kg	9.3	-	-
Cadmium	0.4	mg/kg	< 0.4	-	-
Chromium	5	mg/kg	25	-	-
Copper	5	mg/kg	25	-	-
Lead	5	mg/kg	20	-	-
Mercury	0.1	mg/kg	< 0.1	-	-
Nickel	5	mg/kg	10.0	-	-
Zinc	5	mg/kg	54	-	-
% Moisture	1	%	27	20	22
Chloride	10	mg/kg	-	16	< 10
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	42	11
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	7.1	6.3
Sulphate (as SO4)	10	mg/kg	-	29	14

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	Sydney	Dec 23, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Dec 23, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Dec 23, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Dec 23, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Dec 23, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Sydney	Dec 23, 2021	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Organophosphorus Pesticides	Sydney	Dec 23, 2021	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS			
Metals M8	Sydney	Dec 23, 2021	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Sydney	Dec 23, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			
Chloride	Sydney	Dec 23, 2021	28 Days
- Method: In-house method LTM-INO-4270 Anions by Ion Chromatography			
Conductivity (1:5 aqueous extract at 25°C as rec.)	Sydney	Dec 23, 2021	7 Days
- Method: LTM-INO-4030 Conductivity			
pH (1:5 Aqueous extract at 25°C as rec.)	Sydney	Dec 23, 2021	7 Days
- Method: LTM-GEN-7090 pH by ISE			
Sulphate (as SO4)	Sydney	Dec 23, 2021	28 Days
- Method: In-house method LTM-INO-4270 Sulphate by Ion Chromatograph			

eurofins | Environment Testing

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Project Name: 200 ALDINGTON ROAD KEMPS CREEK
Project ID: 21.1994.DSI1

Order No.:
Report #: 852775
Phone: 02 9400 7711
Fax: 02 9401 0097

Received: Dec 21, 2021 11:51 AM
Due: Dec 30, 2021
Priority: 5 Day
Contact Name: Hayden Nancarrow

Eurofins Analytical Services Manager : Asim Khan

Sample Detail						Chloride	Conductivity (1:5 aqueous extract at 25°C as rec.)	pH (1:5 Aqueous extract at 25°C as rec.)	Sulphate (as SO4)	Moisture Set	Eurofins Suite B10
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	21.1994.SR	Dec 20, 2021		Soil	S21-De55158					X	X
2	21.1994.TP47-SALINITY	Dec 20, 2021		Soil	S21-De55159	X	X	X	X	X	
3	21.1994.TP24-SALINITY	Dec 20, 2021		Soil	S21-De55160	X	X	X	X	X	
Test Counts						2	2	2	2	3	1

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/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 5.4
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% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

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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	
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							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	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							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Conductivity (1:5 aqueous extract at 25°C as rec.)	uS/cm	< 10			10	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	103			70-130	Pass	
TRH C10-C14	%	103			70-130	Pass	
Naphthalene	%	87			70-130	Pass	
TRH C6-C10	%	102			70-130	Pass	
TRH >C10-C16	%	102			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	117			70-130	Pass	
Toluene	%	104			70-130	Pass	
Ethylbenzene	%	102			70-130	Pass	
m&p-Xylenes	%	104			70-130	Pass	
o-Xylene	%	109			70-130	Pass	
Xylenes - Total*	%	106			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	79			70-130	Pass	
Acenaphthylene	%	83			70-130	Pass	
Anthracene	%	83			70-130	Pass	
Benz(a)anthracene	%	76			70-130	Pass	
Benzo(a)pyrene	%	79			70-130	Pass	
Benzo(b&j)fluoranthene	%	79			70-130	Pass	
Benzo(g.h.i)perylene	%	81			70-130	Pass	
Benzo(k)fluoranthene	%	87			70-130	Pass	
Chrysene	%	79			70-130	Pass	
Dibenz(a.h)anthracene	%	85			70-130	Pass	
Fluoranthene	%	79			70-130	Pass	
Fluorene	%	84			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	86			70-130	Pass	
Naphthalene	%	80			70-130	Pass	
Phenanthrene	%	76			70-130	Pass	
Pyrene	%	79			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	76			70-130	Pass	
4.4'-DDD	%	74			70-130	Pass	
4.4'-DDE	%	78			70-130	Pass	
4.4'-DDT	%	74			70-130	Pass	
a-HCH	%	71			70-130	Pass	
Aldrin	%	75			70-130	Pass	
b-HCH	%	76			70-130	Pass	
d-HCH	%	72			70-130	Pass	
Dieldrin	%	74			70-130	Pass	
Endosulfan I	%	74			70-130	Pass	
Endosulfan II	%	71			70-130	Pass	
Endosulfan sulphate	%	73			70-130	Pass	
Endrin	%	76			70-130	Pass	
Endrin aldehyde	%	74			70-130	Pass	
Endrin ketone	%	74			70-130	Pass	
g-HCH (Lindane)	%	79			70-130	Pass	
Heptachlor	%	73			70-130	Pass	
Heptachlor epoxide	%	73			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Hexachlorobenzene	%	77			70-130	Pass	
Methoxychlor	%	75			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	94			70-130	Pass	
Dimethoate	%	77			70-130	Pass	
Ethion	%	77			70-130	Pass	
Fenitrothion	%	74			70-130	Pass	
Methyl parathion	%	81			70-130	Pass	
Mevinphos	%	79			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	104			80-120	Pass	
Cadmium	%	105			80-120	Pass	
Chromium	%	108			80-120	Pass	
Copper	%	108			80-120	Pass	
Lead	%	103			80-120	Pass	
Mercury	%	104			80-120	Pass	
Nickel	%	107			80-120	Pass	
Zinc	%	103			80-120	Pass	
LCS - % Recovery							
Chloride	%	103			70-130	Pass	
Conductivity (1:5 aqueous extract at 25°C as rec.)	%	93			70-130	Pass	
Sulphate (as SO4)	%	106			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	N21-De38587	NCP	%	91			70-130	Pass	
TRH C10-C14	S21-De51711	NCP	%	100			70-130	Pass	
Naphthalene	N21-De38587	NCP	%	72			70-130	Pass	
TRH C6-C10	N21-De38587	NCP	%	91			70-130	Pass	
TRH >C10-C16	S21-De51711	NCP	%	106			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	N21-De38587	NCP	%	102			70-130	Pass	
Toluene	N21-De38587	NCP	%	86			70-130	Pass	
Ethylbenzene	N21-De38587	NCP	%	79			70-130	Pass	
m&p-Xylenes	N21-De38587	NCP	%	78			70-130	Pass	
o-Xylene	N21-De38587	NCP	%	82			70-130	Pass	
Xylenes - Total*	N21-De38587	NCP	%	79			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-De57585	NCP	%	89			70-130	Pass	
Acenaphthylene	S21-De57585	NCP	%	91			70-130	Pass	
Anthracene	S21-De57585	NCP	%	93			70-130	Pass	
Benz(a)anthracene	S21-De47752	NCP	%	75			70-130	Pass	
Benzo(a)pyrene	S21-De57585	NCP	%	87			70-130	Pass	
Benzo(b&j)fluoranthene	S21-De57585	NCP	%	82			70-130	Pass	
Benzo(g.h.i)perylene	S21-De56860	NCP	%	100			70-130	Pass	
Benzo(k)fluoranthene	S21-De57585	NCP	%	105			70-130	Pass	
Chrysene	S21-De57585	NCP	%	86			70-130	Pass	
Dibenz(a.h)anthracene	S21-De57585	NCP	%	80			70-130	Pass	
Fluoranthene	S21-De57585	NCP	%	89			70-130	Pass	
Fluorene	S21-De57585	NCP	%	95			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-De57585	NCP	%	79			70-130	Pass	
Naphthalene	S21-De57585	NCP	%	91			70-130	Pass	
Phenanthrene	S21-De57585	NCP	%	87			70-130	Pass	
Pyrene	S21-De57585	NCP	%	90			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S21-De49180	NCP	%	81			70-130	Pass	
4.4'-DDD	S21-De49180	NCP	%	79			70-130	Pass	
4.4'-DDE	S21-De49180	NCP	%	86			70-130	Pass	
4.4'-DDT	S21-De49180	NCP	%	73			70-130	Pass	
a-HCH	S21-De49180	NCP	%	76			70-130	Pass	
Aldrin	S21-De49180	NCP	%	81			70-130	Pass	
b-HCH	S21-De49180	NCP	%	80			70-130	Pass	
d-HCH	S21-De49180	NCP	%	77			70-130	Pass	
Dieldrin	S21-De49180	NCP	%	83			70-130	Pass	
Endosulfan I	S21-De49180	NCP	%	80			70-130	Pass	
Endosulfan II	S21-De49180	NCP	%	73			70-130	Pass	
Endosulfan sulphate	S21-De49180	NCP	%	82			70-130	Pass	
Endrin	S21-De49180	NCP	%	79			70-130	Pass	
Endrin aldehyde	S21-De49180	NCP	%	75			70-130	Pass	
Endrin ketone	S21-De49180	NCP	%	82			70-130	Pass	
g-HCH (Lindane)	S21-De49180	NCP	%	81			70-130	Pass	
Heptachlor	S21-De49180	NCP	%	82			70-130	Pass	
Heptachlor epoxide	S21-De49180	NCP	%	80			70-130	Pass	
Hexachlorobenzene	S21-De49180	NCP	%	80			70-130	Pass	
Methoxychlor	S21-De49180	NCP	%	78			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Diazinon	S21-De49180	NCP	%	87			70-130	Pass	
Dimethoate	S21-De49180	NCP	%	84			70-130	Pass	
Ethion	S21-De49180	NCP	%	91			70-130	Pass	
Fenitrothion	S21-De49180	NCP	%	79			70-130	Pass	
Methyl parathion	S21-De49180	NCP	%	90			70-130	Pass	
Mevinphos	S21-De49180	NCP	%	81			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-De54764	NCP	%	108			75-125	Pass	
Cadmium	S21-De54764	NCP	%	102			75-125	Pass	
Chromium	S21-De54764	NCP	%	97			75-125	Pass	
Copper	S21-De54764	NCP	%	95			75-125	Pass	
Lead	S21-De54764	NCP	%	90			75-125	Pass	
Mercury	S21-De54764	NCP	%	96			75-125	Pass	
Nickel	S21-De54764	NCP	%	90			75-125	Pass	
Zinc	S21-De54764	NCP	%	79			75-125	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-De54681	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	N21-De38148	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	N21-De38148	NCP	mg/kg	57	52	9.0	30%	Pass	
TRH C29-C36	N21-De38148	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Naphthalene	S21-De54681	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-De54681	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	N21-De38148	NCP	mg/kg	< 50	< 50	<1	30%	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 >C16-C34	N21-De38148	NCP	mg/kg	110	110	5.0	30%	Pass	
TRH >C34-C40	N21-De38148	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-De54681	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-De54681	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-De54681	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-De54681	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-De54681	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-De54681	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-De54728	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-De54728	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-De54728	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-De54728	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-De54728	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-De54728	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-De54728	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-De54728	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-De54728	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-De54728	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-De54728	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-De54728	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-De54728	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-De54728	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-De54728	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-De54728	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S21-De54728	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S21-De54728	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S21-De54728	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S21-De54728	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	S21-De54728	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S21-De54728	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	S21-De54728	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	S21-De54728	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S21-De54728	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S21-De54728	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S21-De54728	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S21-De54728	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S21-De54728	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S21-De54728	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S21-De54728	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	S21-De54728	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S21-De54728	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S21-De54728	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S21-De54728	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S21-De54728	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	S21-De54728	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	S21-De54728	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	S21-De54728	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	S21-De54728	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	S21-De54728	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	S21-De54728	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	S21-De54728	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	S21-De54728	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	S21-De54728	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	S21-De54728	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	S21-De54728	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	S21-De54728	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	S21-De54728	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	S21-De54728	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	S21-De54728	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	S21-De54728	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	S21-De54728	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	S21-De54728	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	S21-De54728	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	S21-De54728	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	S21-De54728	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	S21-De54728	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	S21-De54728	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	S21-De54728	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	S21-De54728	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	S21-De54728	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	S21-De54728	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	S21-De54728	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	S21-De54728	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	S21-De54728	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	S21-De54728	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	S21-De54728	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	S21-De54728	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	S21-De54728	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	S21-De54728	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-De51966	NCP	mg/kg	4.5	5.2	15	30%	Pass	
Cadmium	S21-De51966	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-De51966	NCP	mg/kg	6.9	7.3	6.0	30%	Pass	
Copper	S21-De51966	NCP	mg/kg	24	24	1.0	30%	Pass	
Lead	S21-De51966	NCP	mg/kg	39	39	1.0	30%	Pass	
Mercury	S21-De51966	NCP	mg/kg	1.1	1.5	32	30%	Fail	Q15
Nickel	S21-De51966	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S21-De51966	NCP	mg/kg	62	52	17	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-De55159	CP	%	20	19	4.0	30%	Pass	
Chloride	S21-De51717	NCP	mg/kg	100	100	1.0	30%	Pass	
Conductivity (1:5 aqueous extract at 25°C as rec.)	S21-De56779	NCP	uS/cm	3500	3600	2.2	30%	Pass	
pH (1:5 Aqueous extract at 25°C as rec.)	S21-De55159	CP	pH Units	7.1	7.1	<1	30%	Pass	
Sulphate (as SO4)	S21-De51717	NCP	mg/kg	16	17	2.0	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
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
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Asim Khan	Analytical Services Manager
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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NSW 2128

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: **Hayden Nancarrow**

Report **855241-S**
Project name 200 ALDINGTON ROAD KEMPS CREEK
Project ID 21.1994.DSI1
Received Date Jan 12, 2022

Client Sample ID			**TP19FILL_0.0-0.3**	**TP07FILL_0.0-0.2**
Sample Matrix			**Soil**	**Soil**
Eurofins Sample No.			**S22-Ja09337**	**S22-Ja09338**
Date Sampled			**Jan 10, 2022**	**Jan 10, 2022**
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
BTEX				
Benzene	0.1	mg/kg	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	87	88
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

Client Sample ID			TP19FILL_0.0-0.3	TP07FILL_0.0-0.2
Sample Matrix			Soil	Soil
Eurofins Sample No.			S22-Ja09337	S22-Ja09338
Date Sampled			Jan 10, 2022	Jan 10, 2022
Test/Reference	LOR	Unit		
Polycyclic Aromatic Hydrocarbons				
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	%	130	108
p-Terphenyl-d14 (surr.)	1	%	148	116
Organochlorine Pesticides				
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	133	93
Tetrachloro-m-xylene (surr.)	1	%	138	113
Organophosphorus Pesticides				
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2
Bolstar	0.2	mg/kg	< 0.2	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2
Coumaphos	2	mg/kg	< 2	< 2
Demeton-S	0.2	mg/kg	< 0.2	< 0.2
Demeton-O	0.2	mg/kg	< 0.2	< 0.2
Diazinon	0.2	mg/kg	< 0.2	< 0.2
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2
Dimethoate	0.2	mg/kg	< 0.2	< 0.2

Client Sample ID			TP19FILL_0.0-0.3	TP07FILL_0.0-0.2
Sample Matrix			**Soil**	**Soil**
Eurofins Sample No.			**S22-Ja09337**	**S22-Ja09338**
Date Sampled			**Jan 10, 2022**	**Jan 10, 2022**
Test/Reference	LOR	Unit		
Organophosphorus Pesticides				
Disulfoton	0.2	mg/kg	< 0.2	< 0.2
EPN	0.2	mg/kg	< 0.2	< 0.2
Ethion	0.2	mg/kg	< 0.2	< 0.2
Ethoprop	0.2	mg/kg	< 0.2	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2
Fenthion	0.2	mg/kg	< 0.2	< 0.2
Malathion	0.2	mg/kg	< 0.2	< 0.2
Merphos	0.2	mg/kg	< 0.2	< 0.2
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2
Mevinphos	0.2	mg/kg	< 0.2	< 0.2
Monocrotophos	2	mg/kg	< 2	< 2
Naled	0.2	mg/kg	< 0.2	< 0.2
Omethoate	2	mg/kg	< 2	< 2
Phorate	0.2	mg/kg	< 0.2	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2
Ronnel	0.2	mg/kg	< 0.2	< 0.2
Terbufos	0.2	mg/kg	< 0.2	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2
Tokuthion	0.2	mg/kg	< 0.2	< 0.2
Trichloronate	0.2	mg/kg	< 0.2	< 0.2
Triphenylphosphate (surr.)	1	%	139	97
Heavy Metals				
Arsenic	2	mg/kg	11	9.2
Cadmium	0.4	mg/kg	< 0.4	< 0.4
Chromium	5	mg/kg	22	20
Copper	5	mg/kg	22	29
Lead	5	mg/kg	22	21
Mercury	0.1	mg/kg	< 0.1	< 0.1
Nickel	5	mg/kg	8.1	12
Zinc	5	mg/kg	33	52
% Moisture	1	%	21	27

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	Sydney	Jan 14, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 14, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 14, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Jan 14, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 14, 2022	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Sydney	Jan 14, 2022	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Organophosphorus Pesticides	Sydney	Jan 14, 2022	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS			
Metals M8	Sydney	Jan 14, 2022	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Sydney	Jan 14, 2022	14 Days
- Method: LTM-GEN-7080 Moisture			

eurofins | Environment Testing

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Project Name: 200 ALDINGTON ROAD KEMPS CREEK
Project ID: 21.1994.DSI1

Order No.:
Report #: 855241
Phone: 02 9400 7711
Fax: 02 9401 0097

Received: Jan 12, 2022 12:15 PM
Due: Jan 19, 2022
Priority: 5 Day
Contact Name: Hayden Nancarrow

Eurofins Analytical Services Manager : Asim Khan

Sample Detail						Moisture Set	Eurofins Suite B10
Melbourne Laboratory - NATA # 1261 Site # 1254							
Sydney Laboratory - NATA # 1261 Site # 18217						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	TP19FILL_0.0-0.3	Jan 10, 2022		Soil	S22-Ja09337	X	X
2	TP07FILL_0.0-0.2	Jan 10, 2022		Soil	S22-Ja09338	X	X
Test Counts						2	2

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/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 5.4
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% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

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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	
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							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	75			70-130	Pass	
TRH C10-C14	%	92			70-130	Pass	
Naphthalene	%	75			70-130	Pass	
TRH C6-C10	%	73			70-130	Pass	
TRH >C10-C16	%	91			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	85			70-130	Pass	
Toluene	%	87			70-130	Pass	
Ethylbenzene	%	87			70-130	Pass	
m&p-Xylenes	%	89			70-130	Pass	
o-Xylene	%	89			70-130	Pass	
Xylenes - Total*	%	89			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	111			70-130	Pass	
Acenaphthylene	%	108			70-130	Pass	
Anthracene	%	116			70-130	Pass	
Benz(a)anthracene	%	105			70-130	Pass	
Benzo(a)pyrene	%	112			70-130	Pass	
Benzo(b&j)fluoranthene	%	106			70-130	Pass	
Benzo(g.h.i)perylene	%	96			70-130	Pass	
Benzo(k)fluoranthene	%	120			70-130	Pass	
Chrysene	%	104			70-130	Pass	
Dibenz(a.h)anthracene	%	111			70-130	Pass	
Fluoranthene	%	110			70-130	Pass	
Fluorene	%	118			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	113			70-130	Pass	
Naphthalene	%	114			70-130	Pass	
Phenanthrene	%	113			70-130	Pass	
Pyrene	%	112			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	94			70-130	Pass	
4.4'-DDD	%	84			70-130	Pass	
4.4'-DDE	%	101			70-130	Pass	
4.4'-DDT	%	101			70-130	Pass	
a-HCH	%	91			70-130	Pass	
Aldrin	%	105			70-130	Pass	
b-HCH	%	93			70-130	Pass	
d-HCH	%	92			70-130	Pass	
Dieldrin	%	97			70-130	Pass	
Endosulfan I	%	92			70-130	Pass	
Endosulfan II	%	82			70-130	Pass	
Endosulfan sulphate	%	91			70-130	Pass	
Endrin	%	95			70-130	Pass	
Endrin aldehyde	%	97			70-130	Pass	
Endrin ketone	%	105			70-130	Pass	
g-HCH (Lindane)	%	92			70-130	Pass	
Heptachlor	%	111			70-130	Pass	
Heptachlor epoxide	%	96			70-130	Pass	
Hexachlorobenzene	%	107			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Methoxychlor	%	76			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	115			70-130	Pass	
Dimethoate	%	86			70-130	Pass	
Ethion	%	128			70-130	Pass	
Fenitrothion	%	105			70-130	Pass	
Methyl parathion	%	108			70-130	Pass	
Mevinphos	%	89			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	107			80-120	Pass	
Cadmium	%	115			80-120	Pass	
Chromium	%	109			80-120	Pass	
Copper	%	111			80-120	Pass	
Lead	%	107			80-120	Pass	
Mercury	%	112			80-120	Pass	
Nickel	%	113			80-120	Pass	
Zinc	%	109			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	N22-Ja08506	NCP	%	86			70-130	Pass	
TRH C10-C14	S22-Ja08042	NCP	%	113			70-130	Pass	
Naphthalene	N22-Ja08506	NCP	%	74			70-130	Pass	
TRH C6-C10	N22-Ja08506	NCP	%	85			70-130	Pass	
TRH >C10-C16	S22-Ja08042	NCP	%	111			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	N22-Ja08506	NCP	%	93			70-130	Pass	
Toluene	N22-Ja08506	NCP	%	96			70-130	Pass	
Ethylbenzene	N22-Ja08506	NCP	%	94			70-130	Pass	
m&p-Xylenes	N22-Ja08506	NCP	%	96			70-130	Pass	
o-Xylene	N22-Ja08506	NCP	%	94			70-130	Pass	
Xylenes - Total*	N22-Ja08506	NCP	%	95			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Endrin aldehyde	S22-Ja05793	NCP	%	66			70-130	Fail	Q08
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S22-Ja07016	NCP	%	90			75-125	Pass	
Cadmium	S22-Ja07016	NCP	%	95			75-125	Pass	
Chromium	S22-Ja09249	NCP	%	79			75-125	Pass	
Copper	S21-De60364	NCP	%	94			75-125	Pass	
Lead	S22-Ja07016	NCP	%	91			75-125	Pass	
Mercury	S22-Ja07016	NCP	%	105			75-125	Pass	
Nickel	S21-De60364	NCP	%	86			75-125	Pass	
Zinc	S21-De60364	NCP	%	84			75-125	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S22-Ja09338	CP	%	113			70-130	Pass	
Acenaphthylene	S22-Ja09338	CP	%	111			70-130	Pass	
Anthracene	S22-Ja09338	CP	%	116			70-130	Pass	
Benz(a)anthracene	S22-Ja09338	CP	%	105			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(a)pyrene	S22-Ja09338	CP	%	111			70-130	Pass	
Benzo(b&j)fluoranthene	S22-Ja09338	CP	%	115			70-130	Pass	
Benzo(g.h.i)perylene	S22-Ja09338	CP	%	90			70-130	Pass	
Benzo(k)fluoranthene	S22-Ja09338	CP	%	114			70-130	Pass	
Chrysene	S22-Ja09338	CP	%	105			70-130	Pass	
Dibenz(a.h)anthracene	S22-Ja09338	CP	%	110			70-130	Pass	
Fluoranthene	S22-Ja09338	CP	%	111			70-130	Pass	
Fluorene	S22-Ja09338	CP	%	120			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S22-Ja09338	CP	%	110			70-130	Pass	
Naphthalene	S22-Ja09338	CP	%	116			70-130	Pass	
Phenanthrene	S22-Ja09338	CP	%	113			70-130	Pass	
Pyrene	S22-Ja09338	CP	%	113			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S22-Ja09338	CP	%	110			70-130	Pass	
4.4'-DDD	S22-Ja09338	CP	%	100			70-130	Pass	
4.4'-DDE	S22-Ja09338	CP	%	117			70-130	Pass	
4.4'-DDT	S22-Ja09338	CP	%	114			70-130	Pass	
a-HCH	S22-Ja09338	CP	%	104			70-130	Pass	
Aldrin	S22-Ja09338	CP	%	118			70-130	Pass	
b-HCH	S22-Ja09338	CP	%	106			70-130	Pass	
d-HCH	S22-Ja09338	CP	%	105			70-130	Pass	
Dieldrin	S22-Ja09338	CP	%	112			70-130	Pass	
Endosulfan I	S22-Ja09338	CP	%	106			70-130	Pass	
Endosulfan II	S22-Ja09338	CP	%	96			70-130	Pass	
Endosulfan sulphate	S22-Ja09338	CP	%	103			70-130	Pass	
Endrin	S22-Ja09338	CP	%	110			70-130	Pass	
Endrin ketone	S22-Ja09338	CP	%	117			70-130	Pass	
g-HCH (Lindane)	S22-Ja09338	CP	%	112			70-130	Pass	
Heptachlor	S22-Ja09338	CP	%	127			70-130	Pass	
Heptachlor epoxide	S22-Ja09338	CP	%	106			70-130	Pass	
Hexachlorobenzene	S22-Ja09338	CP	%	122			70-130	Pass	
Methoxychlor	S22-Ja09338	CP	%	83			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Diazinon	S22-Ja09338	CP	%	115			70-130	Pass	
Dimethoate	S22-Ja09338	CP	%	81			70-130	Pass	
Ethion	S22-Ja09338	CP	%	129			70-130	Pass	
Mevinphos	S22-Ja09338	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	S22-Ja09337	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S22-Ja09337	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S22-Ja09337	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S22-Ja09337	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Naphthalene	S22-Ja09337	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S22-Ja09337	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S22-Ja09337	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S22-Ja09337	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S22-Ja09337	CP	mg/kg	< 100	< 100	<1	30%	Pass	

Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S22-Ja09337	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S22-Ja09337	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S22-Ja09337	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S22-Ja09337	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S22-Ja09337	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S22-Ja09337	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S22-Ja09337	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S22-Ja09337	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S22-Ja09337	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S22-Ja09337	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S22-Ja09337	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S22-Ja09337	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S22-Ja09337	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S22-Ja09337	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S22-Ja09337	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S22-Ja09337	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S22-Ja09337	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S22-Ja09337	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S22-Ja09337	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S22-Ja09337	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S22-Ja09337	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S22-Ja09337	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S22-Ja09337	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S22-Ja09337	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S22-Ja09337	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S22-Ja09337	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	S22-Ja09337	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S22-Ja09337	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	S22-Ja09337	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	S22-Ja09337	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S22-Ja09337	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S22-Ja09337	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S22-Ja09337	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S22-Ja09337	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S22-Ja09337	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S22-Ja09337	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S22-Ja09337	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	S22-Ja09337	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S22-Ja09337	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S22-Ja09337	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S22-Ja09337	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S22-Ja09337	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	S22-Ja09328	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	S22-Ja09337	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	S22-Ja09337	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	S22-Ja09337	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	S22-Ja09337	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	S22-Ja09337	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Coumaphos	S22-Ja09337	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	S22-Ja09337	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	S22-Ja09337	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	S22-Ja09337	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	S22-Ja09337	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	S22-Ja09337	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	S22-Ja09337	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	S22-Ja09337	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	S22-Ja09337	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	S22-Ja09337	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	S22-Ja09337	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	S22-Ja09337	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	S22-Ja09337	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	S22-Ja09337	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	S22-Ja09337	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	S22-Ja09337	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	S22-Ja09337	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	S22-Ja09337	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	S22-Ja09337	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	S22-Ja09337	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	S22-Ja09337	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	S22-Ja09337	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	S22-Ja09337	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	S22-Ja09337	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	S22-Ja09337	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	S22-Ja09337	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	S22-Ja09337	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	S22-Ja09337	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	S22-Ja09337	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S22-Ja07015	NCP	mg/kg	12	9.0	28	30%	Pass	
Cadmium	S22-Ja07015	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S22-Ja07015	NCP	mg/kg	32	31	3.0	30%	Pass	
Copper	S22-Ja07015	NCP	mg/kg	32	42	25	30%	Pass	
Lead	S22-Ja07015	NCP	mg/kg	66	79	18	30%	Pass	
Mercury	S22-Ja07015	NCP	mg/kg	< 0.1	0.1	40	30%	Fail	Q15
Nickel	S22-Ja07015	NCP	mg/kg	23	15	40	30%	Fail	Q15
Zinc	S22-Ja07015	NCP	mg/kg	130	130	4.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S22-Ja09337	CP	%	21	23	6.0	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
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Asim Khan	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (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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Unit 6/7 Millennium Court
Silverwater
NSW 2128

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: **Hayden Nancarrow**

Report **856221-S**
Project name
Project ID 21.1994
Received Date Jan 12, 2022

Client Sample ID			**TP96FILL 0.0-0.3 SR**
Sample Matrix			**Soil**
Eurofins Sample No.			**S22-Ja15928**
Date Sampled			**Jan 12, 2022**
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	%	91
Polycyclic Aromatic Hydrocarbons			
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2
Acenaphthene	0.5	mg/kg	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5
Anthracene	0.5	mg/kg	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5
Chrysene	0.5	mg/kg	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5

Client Sample ID			TP96FILL 0.0-0.3 SR
Sample Matrix			**Soil**
Eurofins Sample No.			**S22-Ja15928**
Date Sampled			**Jan 12, 2022**
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
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	%	104
p-Terphenyl-d14 (surr.)	1	%	114
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
Dibutylchlorendate (surr.)	1	%	109
Tetrachloro-m-xylene (surr.)	1	%	114
Organophosphorus Pesticides			
Azinphos-methyl	0.2	mg/kg	< 0.2
Bolstar	0.2	mg/kg	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2
Coumaphos	2	mg/kg	< 2
Demeton-S	0.2	mg/kg	< 0.2
Demeton-O	0.2	mg/kg	< 0.2
Diazinon	0.2	mg/kg	< 0.2
Dichlorvos	0.2	mg/kg	< 0.2
Dimethoate	0.2	mg/kg	< 0.2

Client Sample ID			TP96FILL 0.0-0.3 SR
Sample Matrix			**Soil**
Eurofins Sample No.			**S22-Ja15928**
Date Sampled			**Jan 12, 2022**
Test/Reference	LOR	Unit	
Organophosphorus Pesticides			
Disulfoton	0.2	mg/kg	< 0.2
EPN	0.2	mg/kg	< 0.2
Ethion	0.2	mg/kg	< 0.2
Ethoprop	0.2	mg/kg	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2
Fenthion	0.2	mg/kg	< 0.2
Malathion	0.2	mg/kg	< 0.2
Merphos	0.2	mg/kg	< 0.2
Methyl parathion	0.2	mg/kg	< 0.2
Mevinphos	0.2	mg/kg	< 0.2
Monocrotophos	2	mg/kg	< 2
Naled	0.2	mg/kg	< 0.2
Omethoate	2	mg/kg	< 2
Phorate	0.2	mg/kg	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.2
Pyrazophos	0.2	mg/kg	< 0.2
Ronnel	0.2	mg/kg	< 0.2
Terbufos	0.2	mg/kg	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.2
Tokuthion	0.2	mg/kg	< 0.2
Trichloronate	0.2	mg/kg	< 0.2
Triphenylphosphate (surr.)	1	%	94
Heavy Metals			
Arsenic	2	mg/kg	7.3
Cadmium	0.4	mg/kg	< 0.4
Chromium	5	mg/kg	21
Copper	5	mg/kg	14
Lead	5	mg/kg	16
Mercury	0.1	mg/kg	< 0.1
Nickel	5	mg/kg	< 5
Zinc	5	mg/kg	17
% Moisture	1	%	14

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	Sydney	Jan 19, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 19, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 19, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Jan 19, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 19, 2022	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Sydney	Jan 19, 2022	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Organophosphorus Pesticides	Sydney	Jan 19, 2022	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS			
Metals M8	Sydney	Jan 19, 2022	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Sydney	Jan 19, 2022	14 Days
- Method: LTM-GEN-7080 Moisture			

eurofins | Environment Testing

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Silverwater
NSW 2128

Project Name:
Project ID: 21.1994

Order No.:
Report #: 856221
Phone: 02 9400 7711
Fax: 02 9401 0097

Received: Jan 12, 2022 5:03 PM
Due: Jan 19, 2022
Priority: 5 Day
Contact Name: Hayden Nancarrow

Eurofins Analytical Services Manager : Asim Khan

Sample Detail						Moisture Set	Eurofins Suite B10
Melbourne Laboratory - NATA # 1261 Site # 1254							
Sydney Laboratory - NATA # 1261 Site # 18217						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	TP96FILL 0.0-0.3 SR	Jan 12, 2022		Soil	S22-Ja15928	X	X
Test Counts						1	1

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/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 5.4
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% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

.

QC Data General Comments

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
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							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	84			70-130	Pass	
TRH C10-C14	%	86			70-130	Pass	
Naphthalene	%	81			70-130	Pass	
TRH C6-C10	%	82			70-130	Pass	
TRH >C10-C16	%	84			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	90			70-130	Pass	
Toluene	%	91			70-130	Pass	
Ethylbenzene	%	91			70-130	Pass	
m&p-Xylenes	%	95			70-130	Pass	
o-Xylene	%	92			70-130	Pass	
Xylenes - Total*	%	94			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	93			70-130	Pass	
Acenaphthylene	%	94			70-130	Pass	
Anthracene	%	92			70-130	Pass	
Benz(a)anthracene	%	90			70-130	Pass	
Benzo(a)pyrene	%	104			70-130	Pass	
Benzo(b&j)fluoranthene	%	93			70-130	Pass	
Benzo(g.h.i)perylene	%	84			70-130	Pass	
Benzo(k)fluoranthene	%	110			70-130	Pass	
Chrysene	%	97			70-130	Pass	
Dibenz(a.h)anthracene	%	103			70-130	Pass	
Fluoranthene	%	93			70-130	Pass	
Fluorene	%	93			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	92			70-130	Pass	
Naphthalene	%	100			70-130	Pass	
Phenanthrene	%	94			70-130	Pass	
Pyrene	%	93			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	83			70-130	Pass	
4.4'-DDD	%	71			70-130	Pass	
4.4'-DDE	%	83			70-130	Pass	
4.4'-DDT	%	96			70-130	Pass	
a-HCH	%	73			70-130	Pass	
Aldrin	%	86			70-130	Pass	
b-HCH	%	85			70-130	Pass	
d-HCH	%	83			70-130	Pass	
Dieldrin	%	86			70-130	Pass	
Endosulfan I	%	81			70-130	Pass	
Endosulfan II	%	75			70-130	Pass	
Endosulfan sulphate	%	76			70-130	Pass	
Endrin	%	118			70-130	Pass	
Endrin ketone	%	76			70-130	Pass	
g-HCH (Lindane)	%	90			70-130	Pass	
Heptachlor	%	98			70-130	Pass	
Heptachlor epoxide	%	88			70-130	Pass	
Hexachlorobenzene	%	86			70-130	Pass	
LCS - % Recovery							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Organophosphorus Pesticides							
Diazinon	%	125			70-130	Pass	
Dimethoate	%	90			70-130	Pass	
Ethion	%	98			70-130	Pass	
Fenitrothion	%	125			70-130	Pass	
Methyl parathion	%	128			70-130	Pass	
Mevinphos	%	103			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	103			80-120	Pass	
Cadmium	%	97			80-120	Pass	
Chromium	%	98			80-120	Pass	
Copper	%	97			80-120	Pass	
Lead	%	101			80-120	Pass	
Mercury	%	98			80-120	Pass	
Nickel	%	98			80-120	Pass	
Zinc	%	99			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	S22-Ja14279	NCP	%	88			70-130	Pass	
TRH C10-C14	S22-Ja12400	NCP	%	79			70-130	Pass	
Naphthalene	S22-Ja14279	NCP	%	81			70-130	Pass	
TRH C6-C10	S22-Ja14279	NCP	%	87			70-130	Pass	
TRH >C10-C16	S22-Ja12400	NCP	%	80			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S22-Ja14279	NCP	%	94			70-130	Pass	
Toluene	S22-Ja14279	NCP	%	98			70-130	Pass	
Ethylbenzene	S22-Ja14279	NCP	%	97			70-130	Pass	
m&p-Xylenes	S22-Ja14279	NCP	%	100			70-130	Pass	
o-Xylene	S22-Ja14279	NCP	%	98			70-130	Pass	
Xylenes - Total*	S22-Ja14279	NCP	%	99			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	N22-Ja14225	NCP	%	96			75-125	Pass	
Cadmium	N22-Ja14225	NCP	%	97			75-125	Pass	
Chromium	N22-Ja14225	NCP	%	94			75-125	Pass	
Copper	N22-Ja14225	NCP	%	92			75-125	Pass	
Lead	N22-Ja14225	NCP	%	94			75-125	Pass	
Mercury	N22-Ja14225	NCP	%	95			75-125	Pass	
Nickel	N22-Ja14225	NCP	%	94			75-125	Pass	
Zinc	N22-Ja14225	NCP	%	96			75-125	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	S22-Ja14278	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S22-Ja14674	NCP	mg/kg	68	69	1.0	30%	Pass	
TRH C15-C28	S22-Ja14674	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S22-Ja14674	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Naphthalene	S22-Ja14278	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S22-Ja14278	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S22-Ja14674	NCP	mg/kg	< 50	< 50	<1	30%	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 >C16-C34	S22-Ja14674	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S22-Ja14674	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S22-Ja14278	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S22-Ja14278	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S22-Ja14278	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S22-Ja14278	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S22-Ja14278	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S22-Ja14278	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	N22-Ja13102	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	N22-Ja13102	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	N22-Ja13102	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	N22-Ja13102	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	N22-Ja13102	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	N22-Ja13102	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	N22-Ja13102	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	N22-Ja13102	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	N22-Ja13102	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	N22-Ja13102	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	N22-Ja13102	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	N22-Ja13102	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	N22-Ja13102	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	N22-Ja13102	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	N22-Ja13102	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	N22-Ja13102	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	N22-Ja13102	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	N22-Ja13102	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	N22-Ja13102	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	N22-Ja13102	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	N22-Ja13102	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	N22-Ja13102	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	N22-Ja13102	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	N22-Ja13102	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	N22-Ja13102	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	N22-Ja13102	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	N22-Ja13102	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	N22-Ja13102	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	N22-Ja13102	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	N22-Ja13102	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	N22-Ja13102	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	N22-Ja13102	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	N22-Ja13102	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	N22-Ja13102	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	N22-Ja13102	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	N22-Ja13102	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	N22-Ja13102	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	S22-Ja07005	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	S22-Ja07005	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	S22-Ja07005	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	S22-Ja07005	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	S22-Ja07005	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	S22-Ja07005	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	S22-Ja07005	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	S22-Ja07005	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	S22-Ja07005	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	S22-Ja07005	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	S22-Ja07005	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	S22-Ja07005	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	S22-Ja07005	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	S22-Ja07005	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	S22-Ja07005	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	S22-Ja07005	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	S22-Ja07005	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	S22-Ja07005	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	S22-Ja07005	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	S22-Ja07005	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	S22-Ja07005	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	S22-Ja07005	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	S22-Ja07005	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	S22-Ja07005	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	S22-Ja07005	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	S22-Ja07005	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	S22-Ja07005	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	S22-Ja07005	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	S22-Ja07005	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	S22-Ja07005	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	S22-Ja07005	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	S22-Ja07005	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	S22-Ja07005	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	S22-Ja07005	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	N22-Ja14228	NCP	mg/kg	2.7	7.5	94	30%	Fail	Q15
Cadmium	N22-Ja14228	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	N22-Ja14228	NCP	mg/kg	< 5	19	120	30%	Fail	Q15
Copper	N22-Ja14228	NCP	mg/kg	< 5	12	98	30%	Fail	Q15
Lead	N22-Ja14228	NCP	mg/kg	7.6	13	55	30%	Fail	Q15
Mercury	N22-Ja14228	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	N22-Ja14228	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	N22-Ja14228	NCP	mg/kg	26	14	64	30%	Fail	Q15
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	N22-Ja12301	NCP	%	16	17	5.0	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
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Asim Khan	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (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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Attention: **Hayden Nancarrow**

Report **856296-S**
Project name
Project ID 21.1994
Received Date Jan 14, 2022

Client Sample ID			**TP97-SR1**
Sample Matrix			**Soil**
Eurofins Sample No.			**S22-Ja16496**
Date Sampled			**Jan 13, 2022**
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	%	71
Polycyclic Aromatic Hydrocarbons			
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2
Acenaphthene	0.5	mg/kg	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5
Anthracene	0.5	mg/kg	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5
Chrysene	0.5	mg/kg	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5

Client Sample ID			TP97-SR1
Sample Matrix			Soil
Eurofins Sample No.			S22-Ja16496
Date Sampled			Jan 13, 2022
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
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	%	111
p-Terphenyl-d14 (surr.)	1	%	114
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
Dibutylchlorendate (surr.)	1	%	117
Tetrachloro-m-xylene (surr.)	1	%	112
Organophosphorus Pesticides			
Azinphos-methyl	0.2	mg/kg	< 0.2
Bolstar	0.2	mg/kg	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2
Coumaphos	2	mg/kg	< 2
Demeton-S	0.2	mg/kg	< 0.2
Demeton-O	0.2	mg/kg	< 0.2
Diazinon	0.2	mg/kg	< 0.2
Dichlorvos	0.2	mg/kg	< 0.2
Dimethoate	0.2	mg/kg	< 0.2

Client Sample ID			TP97-SR1
Sample Matrix			Soil
Eurofins Sample No.			S22-Ja16496
Date Sampled			Jan 13, 2022
Test/Reference	LOR	Unit	
Organophosphorus Pesticides			
Disulfoton	0.2	mg/kg	< 0.2
EPN	0.2	mg/kg	< 0.2
Ethion	0.2	mg/kg	< 0.2
Ethoprop	0.2	mg/kg	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2
Fenthion	0.2	mg/kg	< 0.2
Malathion	0.2	mg/kg	< 0.2
Merphos	0.2	mg/kg	< 0.2
Methyl parathion	0.2	mg/kg	< 0.2
Mevinphos	0.2	mg/kg	< 0.2
Monocrotophos	2	mg/kg	< 2
Naled	0.2	mg/kg	< 0.2
Omethoate	2	mg/kg	< 2
Phorate	0.2	mg/kg	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.2
Pyrazophos	0.2	mg/kg	< 0.2
Ronnel	0.2	mg/kg	< 0.2
Terbufos	0.2	mg/kg	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.2
Tokuthion	0.2	mg/kg	< 0.2
Trichloronate	0.2	mg/kg	< 0.2
Triphenylphosphate (surr.)	1	%	116
Heavy Metals			
Arsenic	2	mg/kg	8.3
Cadmium	0.4	mg/kg	< 0.4
Chromium	5	mg/kg	24
Copper	5	mg/kg	20
Lead	5	mg/kg	16
Mercury	0.1	mg/kg	< 0.1
Nickel	5	mg/kg	6.2
Zinc	5	mg/kg	25
% Moisture	1	%	20

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	Sydney	Jan 19, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 19, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 19, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Jan 19, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 19, 2022	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Sydney	Jan 19, 2022	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Organophosphorus Pesticides	Sydney	Jan 19, 2022	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS			
Metals M8	Sydney	Jan 19, 2022	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Sydney	Jan 19, 2022	14 Days
- Method: LTM-GEN-7080 Moisture			

eurofins | Environment Testing

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Company Name: ADE Consulting Group Pty Ltd
Address: Unit 6/7 Millennium Court
Silverwater
NSW 2128

Project Name:
Project ID: 21.1994

Order No.:
Report #: 856296
Phone: 02 9400 7711
Fax: 02 9401 0097

Received: Jan 14, 2022 9:29 AM
Due: Jan 21, 2022
Priority: 5 Day
Contact Name: Hayden Nancarrow

Eurofins Analytical Services Manager : Asim Khan

Sample Detail						Moisture Set	Eurofins Suite B10
Melbourne Laboratory - NATA # 1261 Site # 1254							
Sydney Laboratory - NATA # 1261 Site # 18217						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	TP97-SR1	Jan 13, 2022		Soil	S22-Ja16496	X	X
Test Counts						1	1

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/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 5.4
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% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

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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	
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							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	87			70-130	Pass	
TRH C10-C14	%	92			70-130	Pass	
Naphthalene	%	101			70-130	Pass	
TRH C6-C10	%	82			70-130	Pass	
TRH >C10-C16	%	90			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	94			70-130	Pass	
Toluene	%	97			70-130	Pass	
Ethylbenzene	%	95			70-130	Pass	
m&p-Xylenes	%	98			70-130	Pass	
o-Xylene	%	97			70-130	Pass	
Xylenes - Total*	%	98			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	110			70-130	Pass	
Acenaphthylene	%	114			70-130	Pass	
Anthracene	%	121			70-130	Pass	
Benz(a)anthracene	%	108			70-130	Pass	
Benzo(a)pyrene	%	104			70-130	Pass	
Benzo(b&j)fluoranthene	%	121			70-130	Pass	
Benzo(g.h.i)perylene	%	104			70-130	Pass	
Benzo(k)fluoranthene	%	103			70-130	Pass	
Chrysene	%	98			70-130	Pass	
Dibenz(a.h)anthracene	%	111			70-130	Pass	
Fluoranthene	%	118			70-130	Pass	
Fluorene	%	120			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	113			70-130	Pass	
Naphthalene	%	112			70-130	Pass	
Phenanthrene	%	116			70-130	Pass	
Pyrene	%	117			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	104			70-130	Pass	
4.4'-DDD	%	95			70-130	Pass	
4.4'-DDE	%	99			70-130	Pass	
4.4'-DDT	%	88			70-130	Pass	
a-HCH	%	96			70-130	Pass	
Aldrin	%	102			70-130	Pass	
b-HCH	%	99			70-130	Pass	
d-HCH	%	101			70-130	Pass	
Dieldrin	%	112			70-130	Pass	
Endosulfan I	%	100			70-130	Pass	
Endosulfan II	%	93			70-130	Pass	
Endosulfan sulphate	%	83			70-130	Pass	
Endrin	%	108			70-130	Pass	
Endrin aldehyde	%	90			70-130	Pass	
Endrin ketone	%	95			70-130	Pass	
g-HCH (Lindane)	%	101			70-130	Pass	
Heptachlor	%	96			70-130	Pass	
Heptachlor epoxide	%	108			70-130	Pass	
Hexachlorobenzene	%	103			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Methoxychlor	%	95			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	71			70-130	Pass	
Dimethoate	%	128			70-130	Pass	
Ethion	%	73			70-130	Pass	
Fenitrothion	%	74			70-130	Pass	
Methyl parathion	%	83			70-130	Pass	
Mevinphos	%	111			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	106			80-120	Pass	
Cadmium	%	103			80-120	Pass	
Chromium	%	100			80-120	Pass	
Copper	%	98			80-120	Pass	
Lead	%	101			80-120	Pass	
Mercury	%	100			80-120	Pass	
Nickel	%	99			80-120	Pass	
Zinc	%	99			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	S22-Ja20408	NCP	%	79			70-130	Pass	
TRH C10-C14	S22-Ja14854	NCP	%	105			70-130	Pass	
Naphthalene	S22-Ja20408	NCP	%	83			70-130	Pass	
TRH C6-C10	S22-Ja20408	NCP	%	75			70-130	Pass	
TRH >C10-C16	S22-Ja14854	NCP	%	102			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S22-Ja20408	NCP	%	84			70-130	Pass	
Toluene	S22-Ja20408	NCP	%	82			70-130	Pass	
Ethylbenzene	S22-Ja20408	NCP	%	81			70-130	Pass	
m&p-Xylenes	S22-Ja20408	NCP	%	83			70-130	Pass	
o-Xylene	S22-Ja20408	NCP	%	81			70-130	Pass	
Xylenes - Total*	S22-Ja20408	NCP	%	82			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S22-Ja20126	NCP	%	116			70-130	Pass	
Acenaphthylene	S22-Ja20126	NCP	%	115			70-130	Pass	
Anthracene	S22-Ja20126	NCP	%	118			70-130	Pass	
Benz(a)anthracene	S22-Ja20126	NCP	%	107			70-130	Pass	
Benzo(a)pyrene	S22-Ja20126	NCP	%	102			70-130	Pass	
Benzo(b&j)fluoranthene	S22-Ja20126	NCP	%	128			70-130	Pass	
Benzo(g.h.i)perylene	S22-Ja20126	NCP	%	89			70-130	Pass	
Benzo(k)fluoranthene	S22-Ja20126	NCP	%	102			70-130	Pass	
Chrysene	S22-Ja20126	NCP	%	101			70-130	Pass	
Dibenz(a.h)anthracene	S22-Ja20126	NCP	%	89			70-130	Pass	
Fluoranthene	S22-Ja20126	NCP	%	121			70-130	Pass	
Fluorene	S22-Ja20126	NCP	%	124			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S22-Ja20126	NCP	%	100			70-130	Pass	
Naphthalene	S22-Ja20126	NCP	%	122			70-130	Pass	
Phenanthrene	S22-Ja20126	NCP	%	116			70-130	Pass	
Pyrene	S22-Ja20126	NCP	%	123			70-130	Pass	
Spike - % Recovery									

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S22-Ja20126	NCP	%	107			70-130	Pass	
4.4'-DDD	S22-Ja20126	NCP	%	93			70-130	Pass	
4.4'-DDE	S22-Ja20126	NCP	%	102			70-130	Pass	
4.4'-DDT	S22-Ja20126	NCP	%	92			70-130	Pass	
a-HCH	S22-Ja20126	NCP	%	93			70-130	Pass	
Aldrin	S22-Ja20126	NCP	%	106			70-130	Pass	
b-HCH	S22-Ja20126	NCP	%	98			70-130	Pass	
d-HCH	S22-Ja20126	NCP	%	99			70-130	Pass	
Dieldrin	S22-Ja20126	NCP	%	114			70-130	Pass	
Endosulfan I	S22-Ja20126	NCP	%	100			70-130	Pass	
Endosulfan II	S22-Ja20126	NCP	%	94			70-130	Pass	
Endosulfan sulphate	S22-Ja20126	NCP	%	80			70-130	Pass	
Endrin	S22-Ja20126	NCP	%	113			70-130	Pass	
Endrin aldehyde	S22-Ja20126	NCP	%	86			70-130	Pass	
Endrin ketone	S22-Ja20126	NCP	%	103			70-130	Pass	
g-HCH (Lindane)	S22-Ja20126	NCP	%	96			70-130	Pass	
Heptachlor	S22-Ja20126	NCP	%	94			70-130	Pass	
Heptachlor epoxide	S22-Ja20126	NCP	%	102			70-130	Pass	
Hexachlorobenzene	S22-Ja20126	NCP	%	107			70-130	Pass	
Methoxychlor	S22-Ja20126	NCP	%	102			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Diazinon	S22-Ja20126	NCP	%	73			70-130	Pass	
Dimethoate	S22-Ja14724	NCP	%	110			70-130	Pass	
Ethion	S22-Ja20126	NCP	%	85			70-130	Pass	
Mevinphos	S22-Ja14724	NCP	%	121			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	N22-Ja15002	NCP	%	111			75-125	Pass	
Cadmium	S22-Ja17256	NCP	%	107			75-125	Pass	
Chromium	S22-Ja17256	NCP	%	124			75-125	Pass	
Copper	S22-Ja17256	NCP	%	118			75-125	Pass	
Lead	S22-Ja12765	NCP	%	94			75-125	Pass	
Mercury	S22-Ja17256	NCP	%	113			75-125	Pass	
Nickel	S22-Ja17256	NCP	%	112			75-125	Pass	
Zinc	S22-Ja12765	NCP	%	122			75-125	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	S22-Ja18539	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S22-Ja17261	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S22-Ja17261	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S22-Ja17261	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Naphthalene	S22-Ja18539	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S22-Ja18539	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S22-Ja17261	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S22-Ja17261	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S22-Ja17261	NCP	mg/kg	< 100	< 100	<1	30%	Pass	

Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S22-Ja18539	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S22-Ja18539	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S22-Ja18539	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S22-Ja18539	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S22-Ja18539	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S22-Ja18539	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S22-Ja16419	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S22-Ja16419	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S22-Ja16419	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S22-Ja16419	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S22-Ja16419	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S22-Ja16419	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S22-Ja16419	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S22-Ja16419	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S22-Ja16419	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S22-Ja16419	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S22-Ja16419	NCP	mg/kg	0.5	< 0.5	14	30%	Pass	
Fluorene	S22-Ja16419	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S22-Ja16419	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S22-Ja16419	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S22-Ja16419	NCP	mg/kg	0.5	< 0.5	24	30%	Pass	
Pyrene	S22-Ja16419	NCP	mg/kg	0.6	< 0.5	16	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S22-Ja16419	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S22-Ja16419	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S22-Ja16419	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S22-Ja16419	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	S22-Ja16419	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S22-Ja16419	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	S22-Ja16419	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	S22-Ja16419	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S22-Ja16419	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S22-Ja16419	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S22-Ja16419	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S22-Ja16419	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S22-Ja16419	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S22-Ja16419	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S22-Ja16419	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	S22-Ja16419	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S22-Ja16419	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S22-Ja16419	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S22-Ja16419	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S22-Ja16419	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	S22-Ja16419	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	S22-Ja16419	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	S22-Ja16419	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	S22-Ja16419	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	S22-Ja16419	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	S22-Ja16419	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Coumaphos	S22-Ja16419	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	S22-Ja16419	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	S22-Ja16419	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	S22-Ja16419	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	S22-Ja16419	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	S22-Ja16419	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	S22-Ja16419	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	S22-Ja16419	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	S22-Ja16419	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	S22-Ja16419	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	S22-Ja16419	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	S22-Ja16419	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	S22-Ja16419	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	S22-Ja16419	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	S22-Ja16419	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	S22-Ja16419	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	S22-Ja16419	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	S22-Ja16419	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	S22-Ja16419	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	S22-Ja16419	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	S22-Ja16419	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	S22-Ja16419	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	S22-Ja16419	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	S22-Ja16419	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	S22-Ja16419	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	S22-Ja16419	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	S22-Ja16419	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	S22-Ja16419	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	S22-Ja16419	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S22-Ja16496	CP	mg/kg	8.3	7.1	15	30%	Pass	
Cadmium	S22-Ja16496	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S22-Ja16496	CP	mg/kg	24	20	17	30%	Pass	
Copper	S22-Ja16496	CP	mg/kg	20	18	10	30%	Pass	
Lead	S22-Ja16496	CP	mg/kg	16	14	10	30%	Pass	
Mercury	S22-Ja16496	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S22-Ja16496	CP	mg/kg	6.2	< 5	29	30%	Pass	
Zinc	S22-Ja16496	CP	mg/kg	25	21	21	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S22-Ja16421	NCP	%	17	16	6.0	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

Authorised by:

Asim Khan	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (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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NATA Accredited
Accreditation Number 1261
Site Number 18217

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Attention: **Hayden Nancarrow**

Report **856375-S**
Project name
Project ID 21.1994
Received Date Jan 14, 2022

Client Sample ID			**TP119-SR**
Sample Matrix			**Soil**
Eurofins Sample No.			**S22-Ja17103**
Date Sampled			**Jan 14, 2022**
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	%	96
Polycyclic Aromatic Hydrocarbons			
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2
Acenaphthene	0.5	mg/kg	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5
Anthracene	0.5	mg/kg	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5
Chrysene	0.5	mg/kg	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5

Client Sample ID			TP119-SR
Sample Matrix			Soil
Eurofins Sample No.			S22-Ja17103
Date Sampled			Jan 14, 2022
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
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	%	134
p-Terphenyl-d14 (surr.)	1	%	127
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
Dibutylchlorendate (surr.)	1	%	127
Tetrachloro-m-xylene (surr.)	1	%	105
Organophosphorus Pesticides			
Azinphos-methyl	0.2	mg/kg	< 0.2
Bolstar	0.2	mg/kg	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2
Coumaphos	2	mg/kg	< 2
Demeton-S	0.2	mg/kg	< 0.2
Demeton-O	0.2	mg/kg	< 0.2
Diazinon	0.2	mg/kg	< 0.2
Dichlorvos	0.2	mg/kg	< 0.2
Dimethoate	0.2	mg/kg	< 0.2

Client Sample ID			TP119-SR
Sample Matrix			Soil
Eurofins Sample No.			S22-Ja17103
Date Sampled			Jan 14, 2022
Test/Reference	LOR	Unit	
Organophosphorus Pesticides			
Disulfoton	0.2	mg/kg	< 0.2
EPN	0.2	mg/kg	< 0.2
Ethion	0.2	mg/kg	< 0.2
Ethoprop	0.2	mg/kg	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2
Fenthion	0.2	mg/kg	< 0.2
Malathion	0.2	mg/kg	< 0.2
Merphos	0.2	mg/kg	< 0.2
Methyl parathion	0.2	mg/kg	< 0.2
Mevinphos	0.2	mg/kg	< 0.2
Monocrotophos	2	mg/kg	< 2
Naled	0.2	mg/kg	< 0.2
Omethoate	2	mg/kg	< 2
Phorate	0.2	mg/kg	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.2
Pyrazophos	0.2	mg/kg	< 0.2
Ronnel	0.2	mg/kg	< 0.2
Terbufos	0.2	mg/kg	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.2
Tokuthion	0.2	mg/kg	< 0.2
Trichloronate	0.2	mg/kg	< 0.2
Triphenylphosphate (surr.)	1	%	125
Heavy Metals			
Arsenic	2	mg/kg	7.5
Cadmium	0.4	mg/kg	< 0.4
Chromium	5	mg/kg	17
Copper	5	mg/kg	16
Lead	5	mg/kg	16
Mercury	0.1	mg/kg	< 0.1
Nickel	5	mg/kg	7.4
Zinc	5	mg/kg	23
% Moisture	1	%	25

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	Sydney	Jan 19, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 19, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 19, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Jan 19, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 19, 2022	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Sydney	Jan 19, 2022	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Organophosphorus Pesticides	Sydney	Jan 19, 2022	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS			
Metals M8	Sydney	Jan 19, 2022	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Sydney	Jan 19, 2022	14 Days
- Method: LTM-GEN-7080 Moisture			

eurofins | Environment Testing

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Project Name:
Project ID: 21.1994

Order No.:
Report #: 856375
Phone: 02 9400 7711
Fax: 02 9401 0097

Received: Jan 14, 2022 4:00 PM
Due: Jan 21, 2022
Priority: 5 Day
Contact Name: Hayden Nancarrow

Eurofins Analytical Services Manager : Asim Khan

Sample Detail						Moisture Set	Eurofins Suite B10
Melbourne Laboratory - NATA # 1261 Site # 1254							
Sydney Laboratory - NATA # 1261 Site # 18217						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	TP119-SR	Jan 14, 2022		Soil	S22-Ja17103	X	X
Test Counts						1	1

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/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 5.4
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% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

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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	
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							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	87			70-130	Pass	
TRH C10-C14	%	92			70-130	Pass	
Naphthalene	%	101			70-130	Pass	
TRH C6-C10	%	82			70-130	Pass	
TRH >C10-C16	%	90			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	94			70-130	Pass	
Toluene	%	97			70-130	Pass	
Ethylbenzene	%	95			70-130	Pass	
m&p-Xylenes	%	98			70-130	Pass	
o-Xylene	%	97			70-130	Pass	
Xylenes - Total*	%	98			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	111			70-130	Pass	
Acenaphthylene	%	112			70-130	Pass	
Anthracene	%	109			70-130	Pass	
Benz(a)anthracene	%	106			70-130	Pass	
Benzo(a)pyrene	%	112			70-130	Pass	
Benzo(b&j)fluoranthene	%	103			70-130	Pass	
Benzo(g.h.i)perylene	%	119			70-130	Pass	
Benzo(k)fluoranthene	%	118			70-130	Pass	
Chrysene	%	107			70-130	Pass	
Dibenz(a.h)anthracene	%	107			70-130	Pass	
Fluoranthene	%	102			70-130	Pass	
Fluorene	%	116			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	109			70-130	Pass	
Naphthalene	%	115			70-130	Pass	
Phenanthrene	%	111			70-130	Pass	
Pyrene	%	104			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	92			70-130	Pass	
4.4'-DDD	%	80			70-130	Pass	
4.4'-DDE	%	100			70-130	Pass	
4.4'-DDT	%	126			70-130	Pass	
a-HCH	%	85			70-130	Pass	
Aldrin	%	94			70-130	Pass	
b-HCH	%	94			70-130	Pass	
d-HCH	%	92			70-130	Pass	
Dieldrin	%	98			70-130	Pass	
Endosulfan I	%	94			70-130	Pass	
Endosulfan II	%	89			70-130	Pass	
Endosulfan sulphate	%	101			70-130	Pass	
Endrin	%	122			70-130	Pass	
Endrin aldehyde	%	94			70-130	Pass	
Endrin ketone	%	95			70-130	Pass	
g-HCH (Lindane)	%	99			70-130	Pass	
Heptachlor	%	123			70-130	Pass	
Heptachlor epoxide	%	99			70-130	Pass	
Hexachlorobenzene	%	94			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Methoxychlor	%	130			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	72			70-130	Pass	
Dimethoate	%	73			70-130	Pass	
Ethion	%	94			70-130	Pass	
Fenitrothion	%	127			70-130	Pass	
Methyl parathion	%	87			70-130	Pass	
Mevinphos	%	89			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	106			80-120	Pass	
Cadmium	%	103			80-120	Pass	
Chromium	%	100			80-120	Pass	
Copper	%	98			80-120	Pass	
Lead	%	101			80-120	Pass	
Mercury	%	100			80-120	Pass	
Nickel	%	99			80-120	Pass	
Zinc	%	99			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	S22-Ja20408	NCP	%	79			70-130	Pass	
TRH C10-C14	S22-Ja12632	NCP	%	106			70-130	Pass	
Naphthalene	S22-Ja20408	NCP	%	83			70-130	Pass	
TRH C6-C10	S22-Ja20408	NCP	%	75			70-130	Pass	
TRH >C10-C16	S22-Ja12632	NCP	%	104			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S22-Ja20408	NCP	%	84			70-130	Pass	
Toluene	S22-Ja20408	NCP	%	82			70-130	Pass	
Ethylbenzene	S22-Ja20408	NCP	%	81			70-130	Pass	
m&p-Xylenes	S22-Ja20408	NCP	%	83			70-130	Pass	
o-Xylene	S22-Ja20408	NCP	%	81			70-130	Pass	
Xylenes - Total*	S22-Ja20408	NCP	%	82			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S22-Ja17041	NCP	%	125			70-130	Pass	
Acenaphthylene	S22-Ja17041	NCP	%	118			70-130	Pass	
Anthracene	S22-Ja17041	NCP	%	115			70-130	Pass	
Benz(a)anthracene	S22-Ja17041	NCP	%	102			70-130	Pass	
Benzo(a)pyrene	S22-Ja17041	NCP	%	107			70-130	Pass	
Benzo(b&j)fluoranthene	S22-Ja17041	NCP	%	107			70-130	Pass	
Benzo(g.h.i)perylene	S22-Ja17041	NCP	%	101			70-130	Pass	
Benzo(k)fluoranthene	S22-Ja17041	NCP	%	120			70-130	Pass	
Chrysene	S22-Ja17041	NCP	%	119			70-130	Pass	
Dibenz(a.h)anthracene	S22-Ja17041	NCP	%	87			70-130	Pass	
Fluoranthene	S22-Ja17041	NCP	%	102			70-130	Pass	
Fluorene	S22-Ja17041	NCP	%	126			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S22-Ja17041	NCP	%	95			70-130	Pass	
Naphthalene	S22-Ja17041	NCP	%	129			70-130	Pass	
Phenanthrene	S22-Ja17041	NCP	%	126			70-130	Pass	
Pyrene	S22-Ja17041	NCP	%	108			70-130	Pass	
Spike - % Recovery									

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S22-Ja17041	NCP	%	95			70-130	Pass	
4.4'-DDD	S22-Ja17041	NCP	%	88			70-130	Pass	
4.4'-DDE	S22-Ja17041	NCP	%	103			70-130	Pass	
4.4'-DDT	S22-Ja12404	NCP	%	73			70-130	Pass	
a-HCH	S22-Ja17041	NCP	%	89			70-130	Pass	
Aldrin	S22-Ja17041	NCP	%	101			70-130	Pass	
b-HCH	S22-Ja17041	NCP	%	92			70-130	Pass	
d-HCH	S22-Ja17041	NCP	%	99			70-130	Pass	
Dieldrin	S22-Ja17041	NCP	%	107			70-130	Pass	
Endosulfan I	S22-Ja17041	NCP	%	94			70-130	Pass	
Endosulfan II	S22-Ja17041	NCP	%	83			70-130	Pass	
Endosulfan sulphate	S22-Ja17041	NCP	%	82			70-130	Pass	
Endrin	S22-Ja12404	NCP	%	99			70-130	Pass	
Endrin aldehyde	S22-Ja17041	NCP	%	86			70-130	Pass	
Endrin ketone	S22-Ja17041	NCP	%	82			70-130	Pass	
g-HCH (Lindane)	S22-Ja17041	NCP	%	101			70-130	Pass	
Heptachlor	S22-Ja17041	NCP	%	119			70-130	Pass	
Heptachlor epoxide	S22-Ja17041	NCP	%	100			70-130	Pass	
Hexachlorobenzene	S22-Ja17041	NCP	%	108			70-130	Pass	
Methoxychlor	S22-Ja17041	NCP	%	74			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Diazinon	S22-Ja12404	NCP	%	94			70-130	Pass	
Dimethoate	S22-Ja17041	NCP	%	86			70-130	Pass	
Ethion	S22-Ja12404	NCP	%	93			70-130	Pass	
Fenitrothion	S22-Ja17041	NCP	%	85			70-130	Pass	
Methyl parathion	S22-Ja12404	NCP	%	76			70-130	Pass	
Mevinphos	S22-Ja12404	NCP	%	116			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	N22-Ja15002	NCP	%	111			75-125	Pass	
Cadmium	S22-Ja17256	NCP	%	107			75-125	Pass	
Chromium	S22-Ja17256	NCP	%	124			75-125	Pass	
Copper	S22-Ja17256	NCP	%	118			75-125	Pass	
Lead	S22-Ja12765	NCP	%	94			75-125	Pass	
Mercury	S22-Ja17256	NCP	%	113			75-125	Pass	
Nickel	S22-Ja17256	NCP	%	112			75-125	Pass	
Zinc	S22-Ja12765	NCP	%	122			75-125	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	S22-Ja18539	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S22-Ja14853	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S22-Ja14853	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S22-Ja14853	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Naphthalene	S22-Ja18539	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S22-Ja18539	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S22-Ja14853	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S22-Ja14853	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S22-Ja14853	NCP	mg/kg	< 100	< 100	<1	30%	Pass	

Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S22-Ja18539	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S22-Ja18539	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S22-Ja18539	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S22-Ja18539	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S22-Ja18539	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S22-Ja18539	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S22-Ja17040	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S22-Ja17040	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S22-Ja17040	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S22-Ja17040	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S22-Ja17040	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S22-Ja17040	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S22-Ja17040	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S22-Ja17040	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S22-Ja17040	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S22-Ja17040	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S22-Ja17040	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S22-Ja17040	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S22-Ja17040	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S22-Ja17040	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S22-Ja17040	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S22-Ja17040	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S22-Ja17040	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S22-Ja17040	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S22-Ja17040	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S22-Ja17040	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	S22-Ja17040	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S22-Ja17040	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	S22-Ja17040	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	S22-Ja17040	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S22-Ja17040	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S22-Ja17040	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S22-Ja17040	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S22-Ja17040	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S22-Ja17040	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S22-Ja17040	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S22-Ja17040	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	S22-Ja17040	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S22-Ja17040	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S22-Ja17040	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S22-Ja17040	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S22-Ja17040	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	S22-Ja17040	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	S22-Ja17040	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	S22-Ja17040	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	S22-Ja17040	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	S22-Ja17040	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	S22-Ja17040	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Coumaphos	S22-Ja17040	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	S22-Ja17040	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	S22-Ja17040	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	S22-Ja17040	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	S22-Ja17040	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	S22-Ja17040	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	S22-Ja17040	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	S22-Ja17040	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	S22-Ja17040	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	S22-Ja17040	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	S22-Ja17040	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	S22-Ja17040	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	S22-Ja17040	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	S22-Ja17040	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	S22-Ja17040	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	S22-Ja17040	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	S22-Ja17040	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	S22-Ja17040	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	S22-Ja17040	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	S22-Ja17040	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	S22-Ja17040	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	S22-Ja17040	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	S22-Ja17040	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	S22-Ja17040	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	S22-Ja17040	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	S22-Ja17040	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	S22-Ja17040	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	S22-Ja17040	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	S22-Ja17040	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S22-Ja16496	NCP	mg/kg	8.3	7.1	15	30%	Pass	
Cadmium	S22-Ja16496	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S22-Ja16496	NCP	mg/kg	24	20	17	30%	Pass	
Copper	S22-Ja16496	NCP	mg/kg	20	18	10	30%	Pass	
Lead	S22-Ja16496	NCP	mg/kg	16	14	10	30%	Pass	
Mercury	S22-Ja16496	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S22-Ja16496	NCP	mg/kg	6.2	< 5	29	30%	Pass	
Zinc	S22-Ja16496	NCP	mg/kg	25	21	21	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S22-Ja17103	CP	%	25	24	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

Authorised by:

Asim Khan	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (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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Sydney Laboratory Services

A division of A. D. Envirotech Australia Pty Ltd
A.C.N. 093 452 950
Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669

Accreditation No.14664
Accredited for compliance with ISO/IEC 17025 - Testing.

This certificate of analysis contains General Comments and Analytical Results. Quality Control Report and Laboratory Quality Acceptance Criteria have been issued separately.

This report supersedes any previous report(s) with this reference. This document shall not be reproduced, except in full.

This report has been electronically signed by authorised signatories below.

Authorised By

Kaiyu Li

General Comments

Samples are analysed on as received basis. Sampling is not covered by NATA accreditation.

Where moisture determination has been performed, results are reported on dry weight basis.

Where the PQL of reported result differs from standard PQL, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Samples were analysed within holding time described by laboratory internal procedures if not stated otherwise. If samples delivered do not meet required analytical criteria, results will be marked with ^.

However surrogate standards are added to samples, results are not corrected for standards recoveries.

Analysis of VOC in water samples are performed on unfiltered waters (as received) spiked with surrogates and injection standards only.

SLS is responsible for all the information in the report, except that provided by the customer.

All sampling information included in the report has been provided by customer.

Information provided by the customer can affect the validity of the results.

Certificate of Analysis

Contact:	Hayden Nancarrow	**Date Reported:**	27/01/2022
Customer:	ADE Consulting Group	**No. of Samples:**	2
Address:	Unit 6 7 Millennium Court Silverwater NSW	**Date Received:**	20/01/2022
		Date of Analysis:	20/01/2022

Cust Ref: 21.1994-DSI1

Glossary:

*NATA accreditation does not cover the performance of this service
ND-not detected,
NT-not tested
INS-Insufficient material to perform the test
LCS-Laboratory Control Sample
RPD-Relative Percent Difference
N/A-Not Applicable
< less than
> greater than
PQL- Practical Quantitation Limit
^Analytical result might be compromised due to sample condition or holding time requirements
Reaction rate 1 = Slight
Reaction rate 2 = Moderate
Reaction rate 3 = High
Reaction rate 4 = Vigorous

Certificate of Analysis

	Sample ID:	2022001183	2022001184
	Sample Name	Trip Blank	Spike
Parameter	Units	PQL	
ESA-P-ORG08 & ORG10			
Benzene		1	<1 ug/L	95%
Toluene		1	<1 ug/L	119%
Ethylbenzene		1	<1 ug/L	121%
m,p Xylene		2	<2 ug/L	103%
o Xylene		1	<1 ug/L	120%
Fluorobenzene (Surr.)	%		80	112

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Customer:	ADE Consulting Group	**No. of Samples:**	2
Address:	Unit 6 7 Millennium Court Silverwater NSW	**Date Received:**	20/01/2022
		Date of Analysis:	20/01/2022

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< less than
> greater than
PQL- Practical Quantitation Limit
^Analytical result might be compromised due to sample condition or holding time requirements
Reaction rate 1 = Slight
Reaction rate 2 = Moderate
Reaction rate 3 = High
Reaction rate 4 = Vigorous

Certificate of Analysis

	Sample ID:	2022001185	2022001186
	Sample Name	Blank	Spike
Parameter	Units	PQL	
ESA-P-ORG08 & ORG10			
Benzene		1	<1 ug/L	87%
Toluene		1	<1 ug/L	86%
Ethylbenzene		1	<1 ug/L	91%
m,p Xylene		2	<2 ug/L	83%
o Xylene		1	<1 ug/L	92%
Fluorobenzene (Surr.)	%		109	99

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Certificate of Analysis

Contact:	Hayden Nancarrow	**Date Reported:**	2/02/2022
Customer:	ADE Consulting Group	**No. of Samples:**	1
Address:	Unit 6 7 Millennium Court Silverwater NSW	**Date Received:**	1/02/2022
		Date of Analysis:	1/02/2022
Cust Ref:	21.1994-DSI1		

Glossary:

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ND-not detected,
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LCS-Laboratory Control Sample
RPD-Relative Percent Difference
N/A-Not Applicable
< less than
> greater than
PQL- Practical Quantitation Limit
^Analytical result might be compromised due to sample condition or holding time requirements
Reaction rate 1 = Slight
Reaction rate 2 = Moderate
Reaction rate 3 = High
Reaction rate 4 = Vigorous

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Certificate of Analysis

Sample ID:	2022002197
Sample Name	TP35-Fill-0.1

Parameter	*Units*	*PQL*	
ESA-MP-01,ICP-01			
Arsenic	mg/kg	5	6.5
Cadmium	mg/kg	0.3	<0.30
Chromium	mg/kg	5	10.2
Copper	mg/kg	5	17.4
Lead	mg/kg	10	<10.0
Mercury	mg/kg	0.2	<0.20
Nickel	mg/kg	10	10.5
Zinc	mg/kg	5	34.3
ESA-P-12			
% Moisture Content	%		24.5
ESA-P-ORG(12 - 15)			
Acenaphthene	mg/kg	0.3	<0.30
Acenaphthylene	mg/kg	0.3	<0.30
Anthracene	mg/kg	0.3	<0.30
Benzo[a]anthracene	mg/kg	0.3	<0.30
Benzo[a]pyrene	mg/kg	0.3	<0.30
Benzo[b]fluoranthene	mg/kg	0.3	<0.30
Benzo[g,h,i]perylene	mg/kg	0.3	<0.30
Benzo[k]fluoranthene	mg/kg	0.3	<0.30
Chrysene	mg/kg	0.3	<0.30
Dibenzo[a,h]anthracene	mg/kg	0.3	<0.30
Fluoranthene	mg/kg	0.3	<0.30
Fluorene	mg/kg	0.3	<0.30
Indeno(1,2,3-cd)pyrene	mg/kg	0.3	<0.30
Naphthalene	mg/kg	0.3	<0.30
Phenanthrene	mg/kg	0.3	<0.30
Pyrene	mg/kg	0.3	<0.30
Sum of Positive PAHs	mg/kg	0.3	<0.30

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Benzo(a)pyrene TEQ (Zero)	mg/kg	0.3	<0.30
Benzo(a)pyrene TEQ (Half PQL)	mg/kg	0.3	0.36
Benzo(a)pyrene TEQ (PQL)	mg/kg	0.3	0.73
p-Terphenyl-d14 (Surr.)	%		102
aldrin	mg/kg	0.1	<0.10
a-BHC	mg/kg	0.1	<0.10
b-BHC	mg/kg	0.1	<0.10
d-BHC	mg/kg	0.1	<0.10
g-BHC (lindane)	mg/kg	0.1	<0.10
cis-chlordane	mg/kg	0.1	<0.10
trans-chlordane	mg/kg	0.1	<0.10
4,4'-DDD	mg/kg	0.1	<0.10
4,4'-DDE	mg/kg	0.1	<0.10
4,4'-DDT	mg/kg	0.1	<0.10
dieldrin	mg/kg	0.1	<0.10
endosulfan I	mg/kg	0.2	<0.20
endosulfan II	mg/kg	0.2	<0.20
endosulfan sulfate	mg/kg	0.1	<0.10
endrin	mg/kg	0.2	<0.20
endrin aldehyde	mg/kg	0.1	<0.10
endrin ketone	mg/kg	0.1	<0.10
heptachlor	mg/kg	0.1	<0.10
heptachlor epoxide	mg/kg	0.1	<0.10
hexachlorobenzene	mg/kg	0.1	<0.10
methoxychlor	mg/kg	0.1	<0.10
TCMX (Surr.)	%		120
chlorpyrifos	mg/kg	0.1	<0.10
chlorpyrifos methyl	mg/kg	0.1	<0.10
diazinon	mg/kg	0.1	<0.10
fenchlorphos	mg/kg	0.1	<0.10
methyl parathion	mg/kg	0.1	<0.10
prophos	mg/kg	0.1	<0.10
tributylphosphorotrithioite	mg/kg	0.1	<0.10

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Aroclor 1016	mg/kg	0.5	<0.50
Aroclor 1221	mg/kg	0.5	<0.50
Aroclor 1232	mg/kg	0.5	<0.50
Aroclor 1242	mg/kg	0.5	<0.50
Aroclor 1248	mg/kg	0.5	<0.50
Aroclor 1254	mg/kg	0.5	<0.50
Aroclor 1260	mg/kg	0.5	<0.50
2-fluorobiphenyl (Surr.)	%		97
ESA-P-ORG(3,8)			
>C10-C16	mg/kg	50	<50
>C16-C34	mg/kg	100	<100
>C34-C40	mg/kg	100	<100
>C10-C40 (Sum of total)	mg/kg	50	<50
>C10-C14	mg/kg	50	<50
>C15-C28	mg/kg	100	<100
>C29-C36	mg/kg	100	<100
>C10-C36 (Sum of total)	mg/kg	50	<50
ESA-P-ORG07 & ORG08			
Benzene	mg/kg	0.5	<0.50
Toluene	mg/kg	0.5	<0.50
Ethylbenzene	mg/kg	0.5	<0.50
m.p Xylene	mg/kg	1	<1.0
o Xylene	mg/kg	0.5	<0.50
Sum of BTEX	mg/kg	1	<1.0
Total Xylenes	mg/kg	1	<1.0
C6-C9 Conc.	mg/kg	35	<35
C6-C10 Conc.	mg/kg	35	<35
C6-C10 minus BTEX (F1)	mg/kg	35	<35
Toluene-d8 (Surr.)	%		114
1,2-Dichloroethane-d4 (Surr.)	%		106
4-Bromofluorobenzene (BFB) (Surr.)	%		114
Trifluorotoluene (Surr.)	%		119

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A.C.N. 093 452 950
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Accreditation No.14664
Accredited for compliance with ISO/IEC 17025 - Testing.

This certificate of analysis contains General Comments and Analytical Results. Quality Control Report and Laboratory Quality Acceptance Criteria have been issued separately.

This report supersedes any previous report(s) with this reference. This document shall not be reproduced, except in full.

This report has been electronically signed by authorised signatories below.

Authorised By



Kaiyu Li

General Comments

Samples are analysed on as received basis. Sampling is not covered by NATA accreditation.

Where moisture determination has been performed, results are reported on dry weight basis.

Where the PQL of reported result differs from standard PQL, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Samples were analysed within holding time described by laboratory internal procedures if not stated otherwise. If samples delivered do not meet required analytical criteria, results will be marked with ^.

However surrogate standards are added to samples, results are not corrected for standards recoveries.

Analysis of VOC in water samples are performed on unfiltered waters (as received) spiked with surrogates and injection standards only.

SLS is responsible for all the information in the report, except that provided by the customer.

All sampling information included in the report has been provided by customer.

Information provided by the customer can affect the validity of the results.

Certificate of Analysis

Contact:	Hayden Nancarrow	**Date Reported:**	27/01/2022
Customer:	ADE Consulting Group	**No. of Samples:**	36
Address:	Unit 6 7 Millennium Court Silverwater NSW	**Date Received:**	21/01/2022
		Date of Analysis:	21/01/2022

Cust Ref: 21.1994 DSI1

Glossary:

*NATA accreditation does not cover the performance of this service
ND-not detected,
NT-not tested
INS-Insufficient material to perform the test
LCS-Laboratory Control Sample
RPD-Relative Percent Difference
N/A-Not Applicable
< less than
> greater than
PQL- Practical Quantitation Limit
^Analytical result might be compromised due to sample condition or holding time requirements
Reaction rate 1 = Slight
Reaction rate 2 = Moderate
Reaction rate 3 = High
Reaction rate 4 = Vigorous

Certificate of Analysis

	Sample ID:	2022001210	2022001211	2022001212	2022001213	2022001214	2022001215	2022001216	2022001217	2022001218	2022001219	2022001220
	Sample Name	TP97-fill	TP97-nat	TP97-BR	TP98-fill	TP98-nat	TP99-fill	TP100-fill	TP100-fill	TP100-nat	TP105-fill	TP106-fill
Parameter	*Units*	*PQL*										
ESA-P-ORG7 & ORG8												
Benzene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	mg/kg	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m.p Xylene	mg/kg	2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
o Xylene	mg/kg	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Sum of BTEX	mg/kg	2	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Total Xylenes	mg/kg	2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Fluorobenzene (Surr.)	%		86	82	89	122	85	103	139	106	104	134	113
C6-C10	mg/kg	35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35
C6-C10 minus BTEX	mg/kg	35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35
C6-C9	mg/kg	25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
ESA-MP-01,ICP-01												
Arsenic	mg/kg	5	16.8	19.4	5.9	20.3	17.0	22.4	10.5	23.7	45.4	<5.0	8.5
Cadmium	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Chromium	mg/kg	5	24.3	20.1	18.5	28.9	5.5	13.3	20.6	30.2	11.7	16.4	22.3
Copper	mg/kg	5	13.0	11.1	18.4	14.4	19.1	8.2	13.8	12.5	43.5	17.7	18.4
Lead	mg/kg	10	<10.0	<10.0	<10.0	22.6	<10.0	17.2	20.4	18.3	22.8	<10.0	<10.0
Mercury	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	mg/kg	10	<10.0	<10.0	<10.0	<10.0	<10.0	10.0	<10.0	<10.0	26.7	<10.0	<10.0
Zinc	mg/kg	5	14.2	<5.0	18.1	30.9	17.6	18.2	25.7	20.5	100.1	30.2	25.8
ESA-P-12												
% Moisture Content	%		19.2	21.3	20.5	25.6	32.4	22.0	21.9	21.8	22.5	20.8	18.1
ESA-P-ORG(12 - 15)												
Acenaphthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Acenaphthylene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30

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Certificate of Analysis

	Sample ID:	2022001210	2022001211	2022001212	2022001213	2022001214	2022001215	2022001216	2022001217	2022001218	2022001219	2022001220
	Sample Name	TP97-fill	TP97-nat	TP97-BR	TP98-fill	TP98-nat	TP99-fill	TP100-fill	TP100-fill	TP100-nat	TP105-fill	TP106-fill
Parameter	Units	PQL										
Anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[a]anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[a]pyrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[b]fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[g,h,i]perylene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[k]fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Chrysene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dibenzo[a,h]anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Fluorene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Indeno(1,2,3-cd)pyrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Naphthalene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Phenanthrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Pyrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Sum of Positive PAHs	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo(a)pyrene TEQ (Zero)	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo(a)pyrene TEQ (Half PQL)	mg/kg	0.3	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Benzo(a)pyrene TEQ (PQL)	mg/kg	0.3	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
p-Terphenyl-d14 (Surr.)	%		77	82	76	78	77	78	72	75	85	73	66
aldrin	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
a-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
b-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
d-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
g-BHC (lindane)	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
cis-chlordane	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
trans-chlordane	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

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Certificate of Analysis

	Sample ID:	2022001210	2022001211	2022001212	2022001213	2022001214	2022001215	2022001216	2022001217	2022001218	2022001219	2022001220
	Sample Name	TP97-fill	TP97-nat	TP97-BR	TP98-fill	TP98-nat	TP99-fill	TP100-fill	TP100-fill	TP100-nat	TP105-fill	TP106-fill
Parameter	Units	PQL										
4,4'-DDD	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDE	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDT	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
dieldrin	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endosulfan I	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endosulfan II	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endosulfan sulfate	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endrin	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endrin aldehyde	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endrin ketone	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
heptachlor	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
heptachlor epoxide	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
hexachlorobenzene	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
methoxychlor	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TCMX (Surr.)	%		92	98	88	91	89	89	82	86	96	83	76
chlorpyrifos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
chlorpyrifos methyl	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
diazinon	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
fenchlorphos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
methyl parathion	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
prophos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
tributylphosphorotrithioite	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor 1016	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1221	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1232	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1242	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

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Certificate of Analysis

	Sample ID:	2022001210	2022001211	2022001212	2022001213	2022001214	2022001215	2022001216	2022001217	2022001218	2022001219	2022001220
	Sample Name	TP97-fill	TP97-nat	TP97-BR	TP98-fill	TP98-nat	TP99-fill	TP100-fill	TP100-fill	TP100-nat	TP105-fill	TP106-fill
Parameter	***Units***	***PQL***										
Aroclor 1248	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1254	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1260	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2-fluorobiphenyl (Surr.)	%		76	82	75	78	77	75	71	75	83	71	66
ESA-P-ORG(3,8)												
>C10-C16	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C16-C34	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C34-C40	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C10-C40 (Sum of total)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C10-C14	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C15-C28	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C29-C36	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C10-C36 (Sum of total)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50

Certificate of Analysis

	Sample ID:	2022001221	2022001222	2022001223	2022001224	2022001225	2022001226	2022001227	2022001228	2022001229	2022001230	2022001231
	Sample Name	TP106-fill	TP106-nat	TP107-fill	TP107-nat	TP108-fill	TP108-fill	TP111-fill	TP112-fill	TP112-fill	TP112-nat	TP113-fill
Parameter	Units	PQL											
ESA-P-ORG7 & ORG8													
Benzene	mg/kg	0.5	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-
Toluene	mg/kg	0.5	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-
Ethylbenzene	mg/kg	1	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-
m.p Xylene	mg/kg	2	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-
o Xylene	mg/kg	1	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-
Sum of BTEX	mg/kg	2	<2.00	<2.00	-	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	-
Total Xylenes	mg/kg	2	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-
Fluorobenzene (Surr.)	%		110	138	-	128	96	73	91	125	102	75	-
C6-C10	mg/kg	35	<35	<35	-	<35	<35	<35	<35	<35	<35	<35	-
C6-C10 minus BTEX	mg/kg	35	<35	<35	-	<35	<35	<35	<35	<35	<35	<35	-
C6-C9	mg/kg	25	<25	<25	-	<25	<25	<25	<25	<25	<25	<25	-
ESA-MP-01,ICP-01													
Arsenic	mg/kg	5	10.9	15.5	11.2	24.2	24.6	14.8	7.3	8.4	5.6	21.0	<5.0
Cadmium	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Chromium	mg/kg	5	19.5	9.4	25.6	11.7	21.1	17.7	17.4	16.4	20.4	27.8	17.8
Copper	mg/kg	5	15.5	15.9	11.5	24.7	8.2	<5.0	14.9	18.7	15.9	13.0	15.8
Lead	mg/kg	10	<10.0	<10.0	13.2	19.7	23.4	<10.0	10.6	<10.0	<10.0	<10.0	<10.0
Mercury	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	mg/kg	10	<10.0	<10.0	<10.0	20.3	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Zinc	mg/kg	5	20.7	19.9	15.8	79.6	8.0	<5.0	23.4	18.0	16.2	18.5	19.3
ESA-P-12													
% Moisture Content	%		15.9	12.1	17.6	13.7	10.3	16.4	20.0	17.8	18.1	18.7	19.0
ESA-P-ORG(12 - 15)													
Acenaphthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Acenaphthylene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30

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	Sample ID:	2022001221	2022001222	2022001223	2022001224	2022001225	2022001226	2022001227	2022001228	2022001229	2022001230	2022001231
	Sample Name	TP106-fill	TP106-nat	TP107-fill	TP107-nat	TP108-fill	TP108-fill	TP111-fill	TP112-fill	TP112-fill	TP112-nat	TP113-fill
Parameter	Units	PQL										
Anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[a]anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[a]pyrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[b]fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[g,h,i]perylene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[k]fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Chrysene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dibenzo[a,h]anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Fluorene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Indeno(1,2,3-cd)pyrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Naphthalene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Phenanthrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Pyrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Sum of Positive PAHs	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo(a)pyrene TEQ (Zero)	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo(a)pyrene TEQ (Half PQL)	mg/kg	0.3	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Benzo(a)pyrene TEQ (PQL)	mg/kg	0.3	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
p-Terphenyl-d14 (Surr.)	%		72	88	67	79	78	67	72	70	75	69	66
aldrin	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
a-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
b-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
d-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
g-BHC (lindane)	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
cis-chlordane	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
trans-chlordane	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

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	Sample ID:	2022001221	2022001222	2022001223	2022001224	2022001225	2022001226	2022001227	2022001228	2022001229	2022001230	2022001231
	Sample Name	TP106-fill	TP106-nat	TP107-fill	TP107-nat	TP108-fill	TP108-fill	TP111-fill	TP112-fill	TP112-fill	TP112-nat	TP113-fill
Parameter	Units	PQL										
4,4'-DDD	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDE	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDT	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
dieldrin	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endosulfan I	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endosulfan II	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endosulfan sulfate	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endrin	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endrin aldehyde	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endrin ketone	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
heptachlor	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
heptachlor epoxide	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
hexachlorobenzene	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
methoxychlor	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TCMX (Surr.)	%		81	99	79	91	89	78	84	81	87	81	80
chlorpyrifos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
chlorpyrifos methyl	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
diazinon	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
fenchlorphos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
methyl parathion	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
prophos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
tributylphosphorotrithioite	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor 1016	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1221	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1232	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1242	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

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	Sample ID:	2022001221	2022001222	2022001223	2022001224	2022001225	2022001226	2022001227	2022001228	2022001229	2022001230	2022001231
	Sample Name	TP106-fill	TP106-nat	TP107-fill	TP107-nat	TP108-fill	TP108-fill	TP111-fill	TP112-fill	TP112-fill	TP112-nat	TP113-fill
Parameter	*Units*	*PQL*										
Aroclor 1248	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1254	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1260	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2-fluorobiphenyl (Surr.)	%		70	85	69	78	77	67	72	69	74	69	69

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	Sample ID:	2022001221	2022001222	2022001223	2022001224	2022001225	2022001226	2022001227	2022001228	2022001229	2022001230	2022001231
	Sample Name	TP106-fill	TP106-nat	TP107-fill	TP107-nat	TP108-fill	TP108-fill	TP111-fill	TP112-fill	TP112-fill	TP112-nat	TP113-fill
Parameter	Units	PQL											
ESA-P-ORG16													
PFBA	ug/kg	5	-	-	<5	-	-	-	-	-	-	-	<5
PFPeA	ug/kg	5	-	-	<5	-	-	-	-	-	-	-	<5
PFBS	ug/kg	5	-	-	<5	-	-	-	-	-	-	-	<5
PFHxA	ug/kg	5	-	-	<5	-	-	-	-	-	-	-	<5
PFPeS	ug/kg	5	-	-	<5	-	-	-	-	-	-	-	<5
PFHpA	ug/kg	5	-	-	<5	-	-	-	-	-	-	-	<5
PFOA	ug/kg	5	-	-	<5	-	-	-	-	-	-	-	<5
PFHpS	ug/kg	5	-	-	<5	-	-	-	-	-	-	-	<5
PFOS	ug/kg	5	-	-	<5	-	-	-	-	-	-	-	<5
PFDA	ug/kg	5	-	-	<5	-	-	-	-	-	-	-	<5
PFUdA	ug/kg	5	-	-	<5	-	-	-	-	-	-	-	<5
PFDoA	ug/kg	5	-	-	<5	-	-	-	-	-	-	-	<5
PFTrDA	ug/kg	5	-	-	<5	-	-	-	-	-	-	-	<5
PFTeDA	ug/kg	5	-	-	<5	-	-	-	-	-	-	-	<5
PFNA	ug/kg	5	-	-	<5	-	-	-	-	-	-	-	<5
PFHxS	ug/kg	5	-	-	<5	-	-	-	-	-	-	-	<5
MPFBA (Surr.)	%		-	-	82	-	-	-	-	-	-	-	76
M3PFBS (Surr.)	%		-	-	78	-	-	-	-	-	-	-	86
MPFOS (Surr.)	%		-	-	93	-	-	-	-	-	-	-	109
MPFHxA (Surr.)	%		-	-	76	-	-	-	-	-	-	-	85
MPFOA (Surr.)	%		-	-	117	-	-	-	-	-	-	-	111
MPFUdA (Surr.)	%		-	-	70	-	-	-	-	-	-	-	109

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	Sample ID:	2022001221	2022001222	2022001223	2022001224	2022001225	2022001226	2022001227	2022001228	2022001229	2022001230	2022001231
	Sample Name	TP106-fill	TP106-nat	TP107-fill	TP107-nat	TP108-fill	TP108-fill	TP111-fill	TP112-fill	TP112-fill	TP112-nat	TP113-fill
Parameter	Units	PQL											
ESA-P-ORG17													
Phenol	mg/kg	0.2	-	-	<0.20	-	-	-	-	-	-	-	<0.20
2-Chlorophenol	mg/kg	0.1	-	-	<0.10	-	-	-	-	-	-	-	<0.10
2-Methylphenol	mg/kg	0.2	-	-	<0.20	-	-	-	-	-	-	-	<0.20
3/4-Methylephenol	mg/kg	0.4	-	-	<0.40	-	-	-	-	-	-	-	<0.40
2-Nitrophenol	mg/kg	0.2	-	-	<0.20	-	-	-	-	-	-	-	<0.20
2,4-Dimethylphenol	mg/kg	0.2	-	-	<0.20	-	-	-	-	-	-	-	<0.20
2,4-Dichlorophenol	mg/kg	0.05	-	-	<0.050	-	-	-	-	-	-	-	<0.050
2,6-Dichlorophenol	mg/kg	0.05	-	-	<0.050	-	-	-	-	-	-	-	<0.050
3-Methyl,4-Chlorophenol	mg/kg	0.2	-	-	<0.20	-	-	-	-	-	-	-	<0.20
2,4,6-Trichlorophenol	mg/kg	0.05	-	-	<0.050	-	-	-	-	-	-	-	<0.050
2,4,5-Trichlorophenol	mg/kg	0.05	-	-	<0.050	-	-	-	-	-	-	-	<0.050
2,4-Dinitrophenol	mg/kg	4	-	-	<4.0	-	-	-	-	-	-	-	<4.0
4-Nitrophenol	mg/kg	4	-	-	<4.0	-	-	-	-	-	-	-	<4.0
2,3,5,6-Tetrachlorophenol	mg/kg	0.1	-	-	<0.10	-	-	-	-	-	-	-	<0.10
2,3,4,5-Tetrachlorophenol	mg/kg	0.1	-	-	<0.10	-	-	-	-	-	-	-	<0.10
2,3,4,6-Tetrachlorophenol	mg/kg	0.1	-	-	<0.10	-	-	-	-	-	-	-	<0.10
2-Methyl-4,6-dinitrophenol	mg/kg	2	-	-	<2.0	-	-	-	-	-	-	-	<2.0
Pentachlorophenol	mg/kg	0.2	-	-	<0.20	-	-	-	-	-	-	-	<0.20
Dinoseb	mg/kg	5	-	-	<5.0	-	-	-	-	-	-	-	<5.0
2-Cyclohexyl-4,6-dinitrophenol	mg/kg	5	-	-	<5.0	-	-	-	-	-	-	-	<5.0
Phenol-d6 (Surr.)	%		-	-	102	-	-	-	-	-	-	-	97
2-Chlorophenol-d4 (Surr.)	%		-	-	86	-	-	-	-	-	-	-	83

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	Sample ID:	2022001221	2022001222	2022001223	2022001224	2022001225	2022001226	2022001227	2022001228	2022001229	2022001230	2022001231
	Sample Name	TP106-fill	TP106-nat	TP107-fill	TP107-nat	TP108-fill	TP108-fill	TP111-fill	TP112-fill	TP112-fill	TP112-nat	TP113-fill
Parameter	Units	PQL											
ESA-P-ORG(3,8)													
>C10-C16	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C16-C34	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C34-C40	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C10-C40 (Sum of total)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C10-C14	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C15-C28	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C29-C36	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C10-C36 (Sum of total)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
ESA-P-ORG07 & ORG08													
Benzene	mg/kg	0.5	-	-	<0.50	-	-	-	-	-	-	-	<0.50
Toluene	mg/kg	0.5	-	-	<0.50	-	-	-	-	-	-	-	<0.50
Ethylbenzene	mg/kg	0.5	-	-	<0.50	-	-	-	-	-	-	-	<0.50
m.p Xylene	mg/kg	1	-	-	<1.0	-	-	-	-	-	-	-	<1.0
o Xylene	mg/kg	0.5	-	-	<0.50	-	-	-	-	-	-	-	<0.50
Sum of BTEX	mg/kg	1	-	-	<1.0	-	-	-	-	-	-	-	<1.0
Total Xylenes	mg/kg	1	-	-	<1.0	-	-	-	-	-	-	-	<1.0
Styrene	mg/kg	0.5	-	-	<0.50	-	-	-	-	-	-	-	<0.50
Sum of MAHs	mg/kg	1	-	-	<1.0	-	-	-	-	-	-	-	<1.0
vNaphthalene	mg/kg	0.5	-	-	<0.50	-	-	-	-	-	-	-	<0.50
C6-C9 Conc.	mg/kg	35	-	-	<35	-	-	-	-	-	-	-	<35
C6-C10 Conc.	mg/kg	35	-	-	<35	-	-	-	-	-	-	-	<35
C6-C10 minus BTEX (F1)	mg/kg	35	-	-	<35	-	-	-	-	-	-	-	<35
Vinyl Chloride	mg/kg	0.5	-	-	<0.50	-	-	-	-	-	-	-	<0.50
trans-1,2-Dichloroethene	mg/kg	0.5	-	-	<0.50	-	-	-	-	-	-	-	<0.50
Methylene chloride	mg/kg	0.5	-	-	<0.50	-	-	-	-	-	-	-	<0.50

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	Sample ID:	2022001221	2022001222	2022001223	2022001224	2022001225	2022001226	2022001227	2022001228	2022001229	2022001230	2022001231
	Sample Name	TP106-fill	TP106-nat	TP107-fill	TP107-nat	TP108-fill	TP108-fill	TP111-fill	TP112-fill	TP112-fill	TP112-nat	TP113-fill
Parameter	Units	PQL											
cis-1,2-Dichloroethene	mg/kg	0.5	-	-	<0.50	-	-	-	-	-	-	-	<0.50
Bromochloromethane	mg/kg	0.5	-	-	<0.50	-	-	-	-	-	-	-	<0.50
Chloroform	mg/kg	0.5	-	-	<0.50	-	-	-	-	-	-	-	<0.50
1,1,1-Trichloroethane	mg/kg	0.5	-	-	<0.50	-	-	-	-	-	-	-	<0.50
1,2-Dichloroethane	mg/kg	0.5	-	-	<0.50	-	-	-	-	-	-	-	<0.50
Carbon tetrachloride	mg/kg	0.5	-	-	<0.50	-	-	-	-	-	-	-	<0.50
1,1,2-Trichloroethane	mg/kg	0.5	-	-	<0.50	-	-	-	-	-	-	-	<0.50
Tetrachloroethene	mg/kg	0.5	-	-	<0.50	-	-	-	-	-	-	-	<0.50
1,1,1,2-Tetrachloroethane	mg/kg	0.5	-	-	<0.50	-	-	-	-	-	-	-	<0.50
1,1,2,2-Tetrachloroethane	mg/kg	0.5	-	-	<0.50	-	-	-	-	-	-	-	<0.50
1,2-Dichlorobenzene	mg/kg	0.5	-	-	<0.50	-	-	-	-	-	-	-	<0.50
1,4-Dichlorobenzene	mg/kg	0.5	-	-	<0.50	-	-	-	-	-	-	-	<0.50
1,2,4-Trichlorobenzene	mg/kg	0.5	-	-	<0.50	-	-	-	-	-	-	-	<0.50
Hexachlorobutadiene	mg/kg	0.5	-	-	<0.50	-	-	-	-	-	-	-	<0.50
1,1-Dichloroethene	mg/kg	0.5	-	-	<0.50	-	-	-	-	-	-	-	<0.50
Trichloroethene	mg/kg	0.5	-	-	<0.50	-	-	-	-	-	-	-	<0.50
Chlorobenzene	mg/kg	0.5	-	-	<0.50	-	-	-	-	-	-	-	<0.50
Sum of Chlorinated Hydrocarbons	mg/kg	0.5	-	-	<0.50	-	-	-	-	-	-	-	<0.50
Other Chlorinated Hydrocarbon	mg/kg	0.5	-	-	<0.50	-	-	-	-	-	-	-	<0.50
Toluene-d8 (Surr.)	%		-	-	107	-	-	-	-	-	-	-	82
1,2-Dichloroethane-d4 (Surr.)	%		-	-	103	-	-	-	-	-	-	-	80
4-Bromofluorobenzene (BFB) (Surr.)	%		-	-	112	-	-	-	-	-	-	-	87
Trifluorotoluene (Surr.)	%		-	-	107	-	-	-	-	-	-	-	78

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	Sample ID:	2022001232	2022001233	2022001234	2022001235	2022001236	2022001237	2022001238	2022001239	2022001240	2022001241	2022001242
	Sample Name	TP113-nat	TP114-fill	TP114-fill	TP114-BR2	TP115-fill	TP115-nat	TP116-fill	TP116-fill	TP116-nat	TP122-fill	TP122-nat
Parameter	Units	PQL										
ESA-P-ORG7 & ORG8												
Benzene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	mg/kg	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m.p Xylene	mg/kg	2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
o Xylene	mg/kg	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Sum of BTEX	mg/kg	2	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Total Xylenes	mg/kg	2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Fluorobenzene (Surr.)	%		91	109	115	102	118	98	87	86	111	104	99
C6-C10	mg/kg	35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35
C6-C10 minus BTEX	mg/kg	35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35
C6-C9	mg/kg	25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
ESA-MP-01,ICP-01												
Arsenic	mg/kg	5	8.5	10.1	10.1	14.6	11.3	34.6	13.5	19.1	<5.0	<5.0	9.9
Cadmium	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Chromium	mg/kg	5	7.2	31.7	23.8	16.8	21.9	34.2	17.9	28.1	7.9	8.2	<5.0
Copper	mg/kg	5	8.2	13.9	13.4	12.1	14.8	13.8	9.6	8.8	5.1	9.5	6.3
Lead	mg/kg	10	26.6	13.9	<10.0	<10.0	15.8	25.8	22.6	16.1	<10.0	<10.0	<10.0
Mercury	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	mg/kg	10	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Zinc	mg/kg	5	<5.0	32.0	17.9	13.9	24.3	30.2	15.2	15.2	13.3	7.4	<5.0
ESA-P-12												
% Moisture Content	%		13.9	20.4	17.9	20.7	18.8	13.8	19.9	20.5	14.9	19.8	16.2
ESA-P-ORG(12 - 15)												
Acenaphthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Acenaphthylene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30

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	Sample ID:	2022001232	2022001233	2022001234	2022001235	2022001236	2022001237	2022001238	2022001239	2022001240	2022001241	2022001242
	Sample Name	TP113-nat	TP114-fill	TP114-fill	TP114-BR2	TP115-fill	TP115-nat	TP116-fill	TP116-fill	TP116-nat	TP122-fill	TP122-nat
Parameter	Units	PQL										
Anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[a]anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[a]pyrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[b]fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[g,h,i]perylene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[k]fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Chrysene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dibenzo[a,h]anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Fluorene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Indeno(1,2,3-cd)pyrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Naphthalene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Phenanthrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Pyrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Sum of Positive PAHs	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo(a)pyrene TEQ (Zero)	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo(a)pyrene TEQ (Half PQL)	mg/kg	0.3	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Benzo(a)pyrene TEQ (PQL)	mg/kg	0.3	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
p-Terphenyl-d14 (Surr.)	%		99	76	80	83	79	77	79	90	78	78	89
aldrin	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
a-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
b-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
d-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
g-BHC (lindane)	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
cis-chlordane	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
trans-chlordane	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

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	Sample ID:	2022001232	2022001233	2022001234	2022001235	2022001236	2022001237	2022001238	2022001239	2022001240	2022001241	2022001242
	Sample Name	TP113-nat	TP114-fill	TP114-fill	TP114-BR2	TP115-fill	TP115-nat	TP116-fill	TP116-fill	TP116-nat	TP122-fill	TP122-nat
Parameter	Units	PQL										
4,4'-DDD	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDE	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDT	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
dieldrin	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endosulfan I	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endosulfan II	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endosulfan sulfate	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endrin	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endrin aldehyde	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endrin ketone	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
heptachlor	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
heptachlor epoxide	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
hexachlorobenzene	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
methoxychlor	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TCMX (Surr.)	%		85	66	66	71	66	64	65	74	62	62	69
chlorpyrifos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
chlorpyrifos methyl	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
diazinon	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
fenchlorphos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
methyl parathion	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
prophos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
tributylphosphorotrithioite	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor 1016	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1221	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1232	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1242	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

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	Sample ID:	2022001232	2022001233	2022001234	2022001235	2022001236	2022001237	2022001238	2022001239	2022001240	2022001241	2022001242
	Sample Name	TP113-nat	TP114-fill	TP114-fill	TP114-BR2	TP115-fill	TP115-nat	TP116-fill	TP116-fill	TP116-nat	TP122-fill	TP122-nat
Parameter	*Units*	*PQL*										
Aroclor 1248	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1254	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1260	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2-fluorobiphenyl (Surr.)	%		82	63	65	68	65	64	64	73	64	62	71
ESA-P-ORG(3,8)												
>C10-C16	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C16-C34	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C34-C40	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C10-C40 (Sum of total)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C10-C14	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C15-C28	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C29-C36	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C10-C36 (Sum of total)	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50

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	Sample ID:	2022001243	2022001244	2022001249
	Sample Name	TP123-fill	TP124-fill	TP124-nat
Parameter	Units	PQL		
ESA-P-ORG7 & ORG8				
Benzene	mg/kg	0.5	<0.50	-	<0.50
Toluene	mg/kg	0.5	<0.50	-	<0.50
Ethylbenzene	mg/kg	1	<1.0	-	<1.0
m.p Xylene	mg/kg	2	<2.0	-	<2.0
o Xylene	mg/kg	1	<1.0	-	<1.0
Sum of BTEX	mg/kg	2	<2.00	-	<2.00
Total Xylenes	mg/kg	2	<2.0	-	<2.0
Fluorobenzene (Surr.)	%		97	-	112
C6-C10	mg/kg	35	<35	-	<35
C6-C10 minus BTEX	mg/kg	35	<35	-	<35
C6-C9	mg/kg	25	<25	-	<25
ESA-MP-01,ICP-01				
Arsenic	mg/kg	5	6.7	12.3	10.6
Cadmium	mg/kg	0.3	<0.30	<0.30	<0.30
Chromium	mg/kg	5	9.1	16.5	17.7
Copper	mg/kg	5	<5.0	16.9	23.5
Lead	mg/kg	10	<10.0	14.8	<10.0
Mercury	mg/kg	0.2	<0.20	<0.20	<0.20
Nickel	mg/kg	10	<10.0	11.4	<10.0
Zinc	mg/kg	5	<5.0	27.7	21.3
ESA-P-12				
% Moisture Content	%		16.9	27.9	21.0
ESA-P-ORG(12 - 15)				
Acenaphthene	mg/kg	0.3	<0.30	<0.30	<0.30
Acenaphthylene	mg/kg	0.3	<0.30	<0.30	<0.30

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	Sample ID:	2022001243	2022001244	2022001249
	Sample Name	TP123-fill	TP124-fill	TP124-nat
Parameter	Units	PQL		
Anthracene	mg/kg	0.3	<0.30	<0.30	<0.30
Benzo[a]anthracene	mg/kg	0.3	<0.30	<0.30	<0.30
Benzo[a]pyrene	mg/kg	0.3	<0.30	<0.30	<0.30
Benzo[b]fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30
Benzo[g,h,i]perylene	mg/kg	0.3	<0.30	<0.30	<0.30
Benzo[k]fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30
Chrysene	mg/kg	0.3	<0.30	<0.30	<0.30
Dibenzo[a,h]anthracene	mg/kg	0.3	<0.30	<0.30	<0.30
Fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30
Fluorene	mg/kg	0.3	<0.30	<0.30	<0.30
Indeno(1,2,3-cd)pyrene	mg/kg	0.3	<0.30	<0.30	<0.30
Naphthalene	mg/kg	0.3	<0.30	<0.30	<0.30
Phenanthrene	mg/kg	0.3	<0.30	<0.30	<0.30
Pyrene	mg/kg	0.3	<0.30	<0.30	<0.30
Sum of Positive PAHs	mg/kg	0.3	<0.30	<0.30	<0.30
Benzo(a)pyrene TEQ (Zero)	mg/kg	0.3	<0.30	<0.30	<0.30
Benzo(a)pyrene TEQ (Half PQL)	mg/kg	0.3	0.36	0.36	0.36
Benzo(a)pyrene TEQ (PQL)	mg/kg	0.3	0.73	0.73	0.73
p-Terphenyl-d14 (Surr.)	%		79	66	82
aldrin	mg/kg	0.1	<0.10	<0.10	<0.10
a-BHC	mg/kg	0.1	<0.10	<0.10	<0.10
b-BHC	mg/kg	0.1	<0.10	<0.10	<0.10
d-BHC	mg/kg	0.1	<0.10	<0.10	<0.10
g-BHC (lindane)	mg/kg	0.1	<0.10	<0.10	<0.10
cis-chlordane	mg/kg	0.1	<0.10	<0.10	<0.10
trans-chlordane	mg/kg	0.1	<0.10	<0.10	<0.10

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Certificate of Analysis

	Sample ID:	2022001243	2022001244	2022001249
	Sample Name	TP123-fill	TP124-fill	TP124-nat
Parameter	Units	PQL		
4,4'-DDD	mg/kg	0.1	<0.10	<0.10	<0.10
4,4'-DDE	mg/kg	0.1	<0.10	<0.10	<0.10
4,4'-DDT	mg/kg	0.1	<0.10	<0.10	<0.10
dieldrin	mg/kg	0.1	<0.10	<0.10	<0.10
endosulfan I	mg/kg	0.2	<0.20	<0.20	<0.20
endosulfan II	mg/kg	0.2	<0.20	<0.20	<0.20
endosulfan sulfate	mg/kg	0.1	<0.10	<0.10	<0.10
endrin	mg/kg	0.2	<0.20	<0.20	<0.20
endrin aldehyde	mg/kg	0.1	<0.10	<0.10	<0.10
endrin ketone	mg/kg	0.1	<0.10	<0.10	<0.10
heptachlor	mg/kg	0.1	<0.10	<0.10	<0.10
heptachlor epoxide	mg/kg	0.1	<0.10	<0.10	<0.10
hexachlorobenzene	mg/kg	0.1	<0.10	<0.10	<0.10
methoxychlor	mg/kg	0.1	<0.10	<0.10	<0.10
TCMX (Surr.)	%		62	78	66
chlorpyrifos	mg/kg	0.1	<0.10	<0.10	<0.10
chlorpyrifos methyl	mg/kg	0.1	<0.10	<0.10	<0.10
diazinon	mg/kg	0.1	<0.10	<0.10	<0.10
fenchlorphos	mg/kg	0.1	<0.10	<0.10	<0.10
methyl parathion	mg/kg	0.1	<0.10	<0.10	<0.10
prophos	mg/kg	0.1	<0.10	<0.10	<0.10
tributylphosphorotrithioite	mg/kg	0.1	<0.10	<0.10	<0.10
Aroclor 1016	mg/kg	0.5	<0.50	<0.50	<0.50
Aroclor 1221	mg/kg	0.5	<0.50	<0.50	<0.50
Aroclor 1232	mg/kg	0.5	<0.50	<0.50	<0.50
Aroclor 1242	mg/kg	0.5	<0.50	<0.50	<0.50

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	Sample ID:	2022001243	2022001244	2022001249
	Sample Name	TP123-fill	TP124-fill	TP124-nat
Parameter	*Units*	*PQL*		
Aroclor 1248	mg/kg	0.5	<0.50	<0.50	<0.50
Aroclor 1254	mg/kg	0.5	<0.50	<0.50	<0.50
Aroclor 1260	mg/kg	0.5	<0.50	<0.50	<0.50
2-fluorobiphenyl (Surr.)	%		64	67	66

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	Sample ID:	2022001243	2022001244	2022001249
	Sample Name	TP123-fill	TP124-fill	TP124-nat
Parameter	Units	PQL		
ESA-P-ORG16				
PFBA	ug/kg	5	-	<5	-
PFPeA	ug/kg	5	-	<5	-
PFBS	ug/kg	5	-	<5	-
PFHxA	ug/kg	5	-	<5	-
PFPeS	ug/kg	5	-	<5	-
PFHpA	ug/kg	5	-	<5	-
PFOA	ug/kg	5	-	<5	-
PFHpS	ug/kg	5	-	<5	-
PFOS	ug/kg	5	-	<5	-
PFDA	ug/kg	5	-	<5	-
PFUdA	ug/kg	5	-	<5	-
PFDoA	ug/kg	5	-	<5	-
PFTrDA	ug/kg	5	-	<5	-
PFTeDA	ug/kg	5	-	<5	-
PFNA	ug/kg	5	-	<5	-
PFHxS	ug/kg	5	-	<5	-
MPFBA (Surr.)	%		-	89	-
M3PFBS (Surr.)	%		-	87	-
MPFOS (Surr.)	%		-	103	-
MPFHxA (Surr.)	%		-	88	-
MPFOA (Surr.)	%		-	116	-
MPFUdA (Surr.)	%		-	100	-

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	Sample ID:	2022001243	2022001244	2022001249
	Sample Name	TP123-fill	TP124-fill	TP124-nat
Parameter	Units	PQL		
ESA-P-ORG17				
Phenol	mg/kg	0.2	-	<0.20	-
2-Chlorophenol	mg/kg	0.1	-	<0.10	-
2-Methylphenol	mg/kg	0.2	-	<0.20	-
3/4-Methylephenol	mg/kg	0.4	-	<0.40	-
2-Nitrophenol	mg/kg	0.2	-	<0.20	-
2,4-Dimethylphenol	mg/kg	0.2	-	<0.20	-
2,4-Dichlorophenol	mg/kg	0.05	-	<0.050	-
2,6-Dichlorophenol	mg/kg	0.05	-	<0.050	-
3-Methyl,4-Chlorophenol	mg/kg	0.2	-	<0.20	-
2,4,6-Trichlorophenol	mg/kg	0.05	-	<0.050	-
2,4,5-Trichlorophenol	mg/kg	0.05	-	<0.050	-
2,4-Dinitrophenol	mg/kg	4	-	<4.0	-
4-Nitrophenol	mg/kg	4	-	<4.0	-
2,3,5,6-Tetrachlorophenol	mg/kg	0.1	-	<0.10	-
2,3,4,5-Tetrachlorophenol	mg/kg	0.1	-	<0.10	-
2,3,4,6-Tetrachlorophenol	mg/kg	0.1	-	<0.10	-
2-Methyl-4,6-dinitrophenol	mg/kg	2	-	<2.0	-
Pentachlorophenol	mg/kg	0.2	-	<0.20	-
Dinoseb	mg/kg	5	-	<5.0	-
2-Cyclohexyl-4,6-dinitrophenol	mg/kg	5	-	<5.0	-
Phenol-d6 (Surr.)	%		-	84	-
2-Chlorophenol-d4 (Surr.)	%		-	72	-

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	Sample ID:	2022001243	2022001244	2022001249
	Sample Name	TP123-fill	TP124-fill	TP124-nat
Parameter	Units	PQL		
ESA-P-ORG(3,8)				
>C10-C16	mg/kg	50	<50	<50	<50
>C16-C34	mg/kg	100	<100	<100	<100
>C34-C40	mg/kg	100	<100	<100	<100
>C10-C40 (Sum of total)	mg/kg	50	<50	<50	<50
>C10-C14	mg/kg	50	<50	<50	<50
>C15-C28	mg/kg	100	<100	<100	<100
>C29-C36	mg/kg	100	<100	<100	<100
>C10-C36 (Sum of total)	mg/kg	50	<50	<50	<50
ESA-P-ORG07 & ORG08				
Benzene	mg/kg	0.5	-	<0.50	-
Toluene	mg/kg	0.5	-	<0.50	-
Ethylbenzene	mg/kg	0.5	-	<0.50	-
m.p Xylene	mg/kg	1	-	<1.0	-
o Xylene	mg/kg	0.5	-	<0.50	-
Sum of BTEX	mg/kg	1	-	<1.0	-
Total Xylenes	mg/kg	1	-	<1.0	-
Styrene	mg/kg	0.5	-	<0.50	-
Sum of MAHs	mg/kg	1	-	<1.0	-
vNaphthalene	mg/kg	0.5	-	<0.50	-
C6-C9 Conc.	mg/kg	35	-	<35	-
C6-C10 Conc.	mg/kg	35	-	<35	-
C6-C10 minus BTEX (F1)	mg/kg	35	-	<35	-
Vinyl Chloride	mg/kg	0.5	-	<0.50	-
trans-1,2-Dichloroethene	mg/kg	0.5	-	<0.50	-
Methylene chloride	mg/kg	0.5	-	<0.50	-

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	Sample ID:	2022001243	2022001244	2022001249
	Sample Name	TP123-fill	TP124-fill	TP124-nat
Parameter	Units	PQL		
cis-1,2-Dichloroethene	mg/kg	0.5	-	<0.50	-
Bromochloromethane	mg/kg	0.5	-	<0.50	-
Chloroform	mg/kg	0.5	-	<0.50	-
1,1,1-Trichloroethane	mg/kg	0.5	-	<0.50	-
1,2-Dichloroethane	mg/kg	0.5	-	<0.50	-
Carbon tetrachloride	mg/kg	0.5	-	<0.50	-
1,1,2-Trichloroethane	mg/kg	0.5	-	<0.50	-
Tetrachloroethene	mg/kg	0.5	-	<0.50	-
1,1,1,2-Tetrachloroethane	mg/kg	0.5	-	<0.50	-
1,1,2,2-Tetrachloroethane	mg/kg	0.5	-	<0.50	-
1,2-Dichlorobenzene	mg/kg	0.5	-	<0.50	-
1,4-Dichlorobenzene	mg/kg	0.5	-	<0.50	-
1,2,4-Trichlorobenzene	mg/kg	0.5	-	<0.50	-
Hexachlorobutadiene	mg/kg	0.5	-	<0.50	-
1,1-Dichloroethene	mg/kg	0.5	-	<0.50	-
Trichloroethene	mg/kg	0.5	-	<0.50	-
Chlorobenzene	mg/kg	0.5	-	<0.50	-
Sum of Chlorinated Hydrocarbons	mg/kg	0.5	-	<0.50	-
Other Chlorinated Hydrocarbon	mg/kg	0.5	-	<0.50	-
Toluene-d8 (Surr.)	%		-	97	-
1,2-Dichloroethane-d4 (Surr.)	%		-	97	-
4-Bromofluorobenzene (BFB) (Surr.)	%		-	103	-
Trifluorotoluene (Surr.)	%		-	97	-

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