LIMITED DETAILED SITE INVESTIGATION REPORT

Part of Block 660 Section 1 Canberra Airport
19 & 21 Scherger Drive

Prepared for:	Capital Airport Group
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TABLE OF CONTENTS

TABLES

AGON DOCUMENT CONTROL

Report Title	Project Reference
Limited Detailed Site Investigation Part of Block 660 Section 1 Canberra Airport 19 & 21 Scherger Drive	JC1147_LDSI
Written	**Approved**
Kurt Lockwood **Environmental Scientist**	 John O'Brien **Principal Environmental Scientist**

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EXECUTIVE SUMMARY

Agon Environmental Pty Ltd (Agon) was engaged by the Capital Airport Group (CAG) to conduct a Limited Detailed Site Investigation (LDSI) for a portion of Block 660 Section 1 at Canberra Airport, located at 19 & 21 Scherger Drive, refer **Figure 1**. The purpose of this investigation was to assess the site's suitability for development as a commercial office building. The proposed development includes a small section of the building footprint (approximately 196 square meters) to be excavated to a depth of 3 meters to accommodate building plant infrastructure.

Given the planned excavation depth, the investigation extended to a depth of 3 meters below ground level (mbgl). No groundwater was encountered during the investigation which is understood to be at depths greater than 10 mbgl (refer **Section 3.2**). As there are no conceivable exposure pathways to groundwater during construction and future occupancy of the site the assessment of groundwater was not considered as part of the investigation.

Two PCAs were identified, these were potential PFAS impacts (to soils) and potential fill of unknown origin. A summary of the assessment is as follows:

- Advancement of 31 sample locations across the site area to a maximum depth of 3.0 metres below ground level (mbgl). The stratification of samples through the soil profile is considered representative of the soils that will be conceivable encountered during civil excavation works during redevelopment.
- Generally, in-situ soil conditions comprised topsoil which was typically logged to depths of to 200mm and was underlain by alluvium (sandy clays to clays), bedrock was encountered between depths of 1.4 and 2.8 mbgl below the alluvium.
- Between 45-58 samples were analysed for a broad range of analytes including TRH, BTEX, PCBs, PAHs, Phenols, OCP, Metals and PFAS. Soil analysis data did not identify the presence of chemical contamination with the exception of 2 detections of PFOS in excess of the PFAS NEMP V2 Ecological Indirect Exposure (EIE) criterion of 0.14 mg/kg, concentrations ranged from 0.18 to 1.3 mg/kg.
- PFAS General Summary - Low concentrations (i.e., at or marginally above the laboratory limit of reporting) of Sum (PFHxS + PFOS) were noted at the following sample locations:

Sample Location & Depth	Sum PFHxS + PFOS (mg/kg)	Sample Location & Depth	Sum PFHxS + PFOS (mg/kg)
TP 306 - 1.0	1.311	TP 304 - 1.0	0.019
BH 301 - 0.35	0.18	BH111 - 0.1	0.016
BH403 - 3.0	0.138	BH113 - 0.1	0.015
BH 303 - 0.5	0.081	BH403 - 0.5	0.355
TP 305 - 0.5	0.066	TP 303 - 0.2	0.013
BH114 - 0.1	0.053	BH03 - 0.1	0.011
TP 301 - 0.2	0.0567	BH24 - 0.1	0.011
BH404 - 0.5	0.048	BH402 - 1.0	0.0509
BH405 - 0.5	0.042	BH106 - 0.1	0.0077
TP 302 - 0.5	0.046	BH18 - 0.1	0.0073
BH112 - 0.1	0.033	BH19 - 0.1	0.0073
TP 306 - 0.2	0.03	BH108 - 0.3	0.0072
BH 304 - 0.5	0.029	BH02 - 0.1	0.0054
NB: Laboratory limit of reporting (LOR) is 0.005 mg/kg			

Two PCAs were identified: potential PFAS impacts (to soils); and potential fill of unknown origin. These PCAs have been qualitatively and quantitatively assessed through a site sampling program and development of a CSM which did not identify any complete contaminant source-pathway-linkages. On this basis, Agon concludes the site to be suitable for the development of a commercial complex and any other permitted commercial uses under the 2020 Canberra Airport Masterplan.

1.0 INTRODUCTION

1.1 Background

Agon Environmental Pty Ltd (Agon) was engaged by the Capital Airport Group (CAG) to conduct a Limited Detailed Site Investigation (LDSI) for a portion of Block 660 Section 1 at Canberra Airport, located at 19 & 21 Scherger Drive, refer **Figure 1**. The purpose of this investigation was to assess the site's suitability for development as a commercial office building. The proposed development includes a small section of the building footprint (approximately 196 square meters) to be excavated to a depth of 3 meters to accommodate building plant infrastructure.

Given the planned excavation depth, the investigation extended to a depth of 3 meters below ground level (mbgl). No groundwater was encountered during the investigation which is understood to be at depths greater than 10 mbgl (refer **Section 3.2**). As there are no conceivable exposure pathways to groundwater during construction and future occupancy of the site the assessment of groundwater was not considered as part of the investigation.

1.2 Objective

The objectives of this LDSI were to identify potentially contaminating activities (PCAs) which may have occurred at the site; provide an assessment of potential risks to human health and the environment; and provide a conclusion as to the suitability of the site for the proposed land use (commercial).

1.3 Scope of Work

The scope of work for this investigation comprised:

- A review of property details and a description of the features of this site.
- A review of regional geology and hydrology
- An inspection of the site.
- A review of historical aerial photographs of the site and surrounding area.
- A review of publicly available information.
- In-situ soil assessment comprising:
    - First mobilisation – Collection of soil samples from 25 boreholes (BH01-BH25 which were advanced to a depth of 2.0m. Agon note some of these borehole locations were located outside the site area. Sample locations within the site area are shown in Figure 3.
    - Second mobilisation (post building demolition to target previously inaccessible areas) – Collection of soil samples from 17 hand auger boreholes (BH101-BH117) which were advanced to a depth of 0.5m. Agon note some of these borehole locations were located outside the site area including samples associated with the removal of soils from within the building footprint (BH104, BH105 and BH107). Sample locations within the site area are shown in Figure 3.
    - Third mobilisation (to target the southwestern portion of the site which was added to the overall site area in late 2023) – Collection of soil samples from 6 test pits (TP301-TP306) and

four hand auger boreholes (BH310-BH304) which were advanced to depths between 0.5m and 1.0m.

- Fourth mobilisation – Opportunistic collection of soil samples from an additional 5 boreholes (BH401-BH405) which were advanced for geotechnical purposes to depths between 2.0m and 3.0m.

- Laboratory analysis of selected soil samples by commercial analytical laboratories using methods registered by the National Association of Testing Authorities (NATA) for identified contaminants of concern.
- Compilation of this information presented in this LDSI report.

1.4 Legislative Framework

The LDSI has been prepared in general accordance with the following guidance documents:

- ACT Government (2019) Information Sheet 4 – Requirements for the Reuse and Disposal of Contaminated Soil in the ACT.
- ACT EPA Information Sheet 11 – Environment Protection Authority Report Submission Requirements.
- Airports (Environment Protection) Regulations 1997.
- National Environment Management (Assessment of Site Contamination) Measure 1999 (amended 2013) (the NEPM).
- NSW EPA (2014) Waste Classification Guidelines – Part 1: Classifying Waste and Addenda.
- NEMP 2.0 Heads of EPA (2020) 'PFAS National Environmental Management Plan, Version 2.0 – January 2020.
- NSW EPA (2020) Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Sites.
- Standards Australia (2005) Guide to the investigation and sampling of sites with potentially contaminated soil. Part 1: Non-volatile and semi-volatile compounds AS4482.1 (2005) and Part 2: Volatile substances, AS4482.2 (2005) (hereafter AS4482.1 and AS4482.2).

1.5 Report Structure

This LDSI has been prepared to present the key reporting requirements of a Preliminary Site Investigation (PSI) and a Detailed Site Investigation (DSI) as defined by the ASC (2013) NEPM. For ease of review the Sections of this report has been summarised as follows:

- **Section 2 (Site Details)** - A summary of the site setting, physical setting, zoning, surrounding land uses and a site inspection. This addresses the key requirements of the ASC (2013) NEPM.
- **Section 3 (Historical Information)** – A summary of the relevant historical information that may be applicable to the site to determine if any PCAs occur at (or in proximity to) the site. Sufficient historical information has been presented to comply with the intent of the ASC (2013) NEPM to identify the PCAs at the site.

- **Section 4 (Site Assessment)** – This section presents the details of the site assessment as would be required in a DSI cumulating in the evaluation of the qualitative and quantitative dataset through a Conceptual Site Model (CSM). This is complaint with the key requirements of the ASC (2013) NEPM**.**

- **Section 5 (Conclusion)** -This section presents a clear and concise conclusion as to the suitability of the site for the proposed land use from a contaminated land perspective.

Figure 1: Site Location
Source: Nearmap (2024)

2.0 SITE DETAILS

2.1 Site Identification

Table 1: Site Identification

Site Identification	
Site Address	19 & 21 Scherger Drive, Canberra ACT 2609
Allotment Description	Portion of Block 660 Section 1, Canberra Airport
Volume/Folio	N/A
Current Land Use	Vacant
Proposed Land Use	Commercial Building
Total Area	Approx. 10,000m^2

2.2 Physical Setting

At the time of the LDSI, the site area was vacant with the exception of a sealed carpark. The eastern portion of the site formerly contained single story residences which have since been demolished. The layout of the site is shown below in **Figure 2**. Adjacent north to the site is undergoing construction works for a carpark.

2.3 Site Zoning

The Canberra Airport is governed by the National Capital Plan (NCP) and is subject to a Master Plan under the applicable Commonwealth Legislation (Airports Act 1996). Under Chapter 8 of the 2020 Canberra Airport Masterplan permitted uses for the site include but noted limited to commercial, office and industrial land uses. In the NCP, Figure 2: General Policy Plan – Metropolitan Canberra, the Canberra Airport is zoned BROADACRE (NUZ1).

2.4 Surrounding Land Use

The immediate surrounding land uses to the site are summarised below in **Table 2**.

Table 2: Surrounding Land Use

Direction	Land Use
North	Richmond Avenue followed by single story residences and a playing field.
East	Carparking.
South	Carpark followed by commercial offices.
West	Scherger Drive followed by commercial offices.

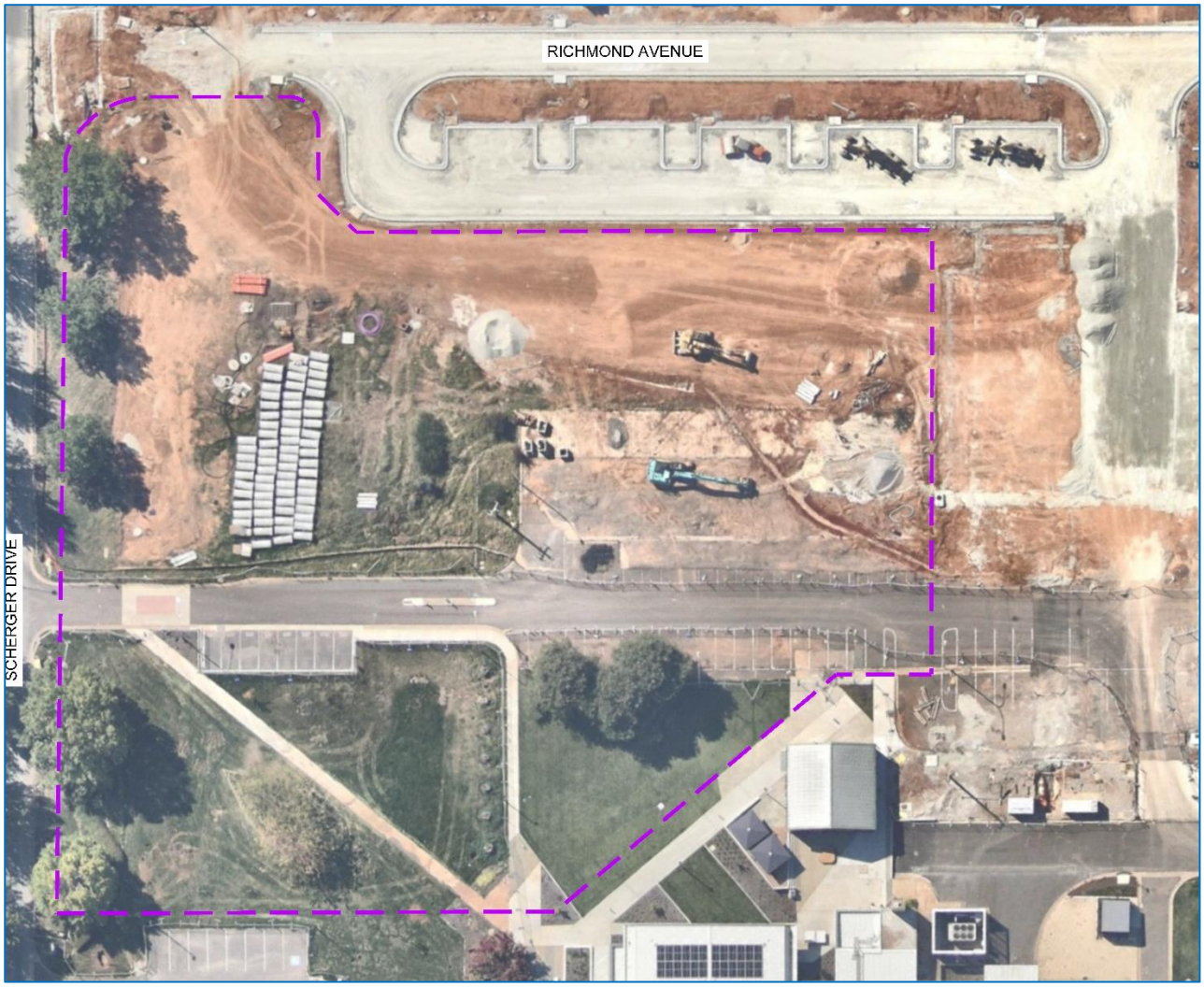

Figure 2: Site Plan
Source: Nearmap (2024)

2.5 Site Geology and Hydrology

The 1:100,000 Geological Series, Canberra (Bureau of Mineral Resources, 1992) describe the site area as being underlain by rocks of the Canberra Formation (comprising of mudstone, siltstone, minor sandstone, limestone, hornfels, dacitic ignimbrite volcaniclastics, minor agglomerate and lithic tuff).

Surface water is expected to overland flow towards Scherger Drive and be collected by the local stormwater system prior to being discharged to an unnamed creek approximately 220m south of the site area. Some local infiltration of rainwater may occur via leaks in stormwater infrastructure and grassed areas.

The site (Fairbairn area) has a height of 582 metres Australin Height Datum (m AHD), higher than Pialligo (562 m AHD).

2.6 Site Inspection

An inspection of the site was undertaken by Agon personnel, key observations were as follows:

- The site has a gentle slope southwest towards Scherger Drive.
- A carpark is present in the central portion of the site.

3.0 HISTORICAL INFORMATION

3.1 Historical Aerial Imagery

Aerial Photographs were reviewed from 1958 to 2024 to investigate the former land uses at the site. Selected aerial extracts are provided in **Appendix A**, with approximate site locations outlined in blue.

Table 3: Historical Aerial Imagery

Year	Description: Site	Description: Surrounds
1958	The site area has been developed with four houses, two small buildings and a portion of a carpark on the southern side.	The surrounding areas have been developed with roads, buildings, houses and car park
1968	No significant changes	No significant changes.
1977	No significant changes.	Further development to the south is apparent.
1987	No significant changes.	Continued development of the surrounds is apparent.
1997	No significant changes.	A building has been removed from the eastern portion of the site.
2004	No significant changes.	No significant changes.
2006	No significant changes.	No significant changes.
2014	No significant changes.	No significant changes.
2022	A building has been removed from the site.	Further development of the surrounds to the south is apparent.
2024	The site has been cleared of all residential buildings. The northern portion of the site is being used as a staging area (i.e. storage of inert construction materials) for the offsite construction of a carpark.	Construction activities are occurring north of the site associated with the construction of carparks.

In summary, the historical aerial imagery indicates the site was primarily developed for residential land uses and carparking. The surrounding areas were in the initial stages of the development from the 1950's and was progressively developed up until the late 2020's. In 2023 the residential buildings were removed with the northern portion of the site currently being used as a staging area (i.e. storage of inert construction materials) for the offsite construction of a carpark.

3.2 Previous Environmental Assessments

Agon has reviewed the following reports:

- AECOM (2019) *Preliminary Site Investigation and Limited Sampling, Canberra Airport* (PSI).
- Agon (2023) Limited Detailed Site Investigation Report. Canberra Airport Richmond Avenue Precinct Carpark. REV#04 dated 6th June 2023.

AECOM (2019)

The AECOM (2019) was completed on behalf of Airservices Australia to investigate areas of the airport that used Aqueous Film Forming Foam (AFFF). Relevant findings were as follows:

- The site was identified to be located within an Area of Potential Environmental Concern (APEC 2: Fairbairn Base). The AECOM report describes APEC 2 as the larger footprint of the Fairbairn and the former RAAF Base Fairbairn which was used for aircraft maintenance, bulk storage/distribution of fuels and a former fire station and store.

- Agon note the site area is comprises a portion of APEC 2 that appeared to be used for residential land uses and not associated with other contaminating activities associated with APEC 2.
- Nearby groundwater wells (MW17 & MW18 approximately 750m northwest and MW14 approximately 950m southwest) to the site reported the standing water level groundwater between 10.183 – 12.855 mbgl.

Agon (2023)

Agon completed a LDSI for the area adjacent east to the site which is currently being developed as a carpark. Key findings of the investigation were as follows:

- 42 boreholes were advanced across the site area to a maximum depth of 2.0m.
- A total of 62 samples have been analysed for a broad range of analytes including TRH, BTEXN, PAHs, PCBs, Phenols, OCP, Metals and PFAS. In summary:
- All soil analysis results were either less than the laboratory limit of reporting or the adopted assessment criteria with the exception of 12 detections of PFOS in excess of the PFAS NEMP V2 Ecological Indirect Exposure (EIE) criterion of 0.01 mg/kg, concentrations ranged from 0.011 to 0.19 mg/kg.
- Two PCAs were identified: potential PFAS impacts (to soils); and potential fill of unknown origin (identified to be limited to the eastern portion of the site). These PCAs were qualitatively and quantitatively assessed through a site sampling program and development of a CSM which did not identify any complete contaminant source-pathway-linkages. On this basis, Agon concluded the site to be suitable for the development of a carpark and any other permitted commercial uses under the 2020 Canberra Airport Masterplan.

3.3 ACT EPA Contaminated Land Search

A search of the Register of Contaminated Sites maintained by the ACT EPA (under the Environment Protection Act 1997) was undertaken to identify any site contamination notifications. A summary of the search is summarised as follows:

> *At the time of reporting, the EPA had not issued any orders of assessment or remediation under sections 91C (1) or 91D (1) respectively, environment protection orders under sections 125 (2) or (3), requested an audit under section 76 (2) or received an audit notification under section 76A (1) of the Environment Protection Act 1997 (the Act) over the site and as a result the site is not recorded on the Register of contaminated sites under section 21A of the Act.*
>
> *Per- and poly-fluoroalkyl substances (PFAS) contamination is also present as a result of the firefighting activities undertaken at the wider airport site. Airservices Australia commissioned a preliminary site investigation (PSI) to identify areas that have been potentially impacted by PFAS at Canberra Airport. EPA records indicate that the PFAS investigation is ongoing.*
>
> *It was also noted that other potentially contaminating activities may have also been undertaken at the site associated with past or current permitted uses. The correspondence received from the EPA did not expand on the types of activities.*

3.4 Historical Building Plans

The site area formerly contained 4 single storey residential buildings. Historical building plans were not available for review however sufficient information is known regarding the historical use of these buildings for the purpose of the LDSI.

3.5 Potentially Contaminating Activities

The site history data indicates the site has largely been vacant with no discernible development apart from residential premises, carparking and inert building material storage. On the basis of the site history and inspection undertaken by Agon the following potentially contaminating activities (PCAs) and Contaminants of Concern (CoCs) have been identified as being present at the site.

Table 4: PCA

PCA	CoCs	Description
PCA01 **PFAS Impacts**	PFAS	It is unknown if the site area is impacted with PFAS as a result of historical activities or other diffuse PFAS sources.
PCA02 **Potential Fill of Unknown Origin**	TRH BTEXN PAHs OCPs/OPPs Phenols Asbestos (visual indicators of bonded asbestos)	The site may contain fill of unknown origin.

4.0 SOIL ASSESSMENT

4.1 Data Quality Objectives

The Data Quality Objective (DQO) process is a seven-step process that assists in the development of sampling programs to optimise the relevance and quality of the data collected. The ASC (2013) NEPM guidelines pertaining to the DQO process are used to establish field and laboratory quality control, assurance and methodologies and are used to measure the performance of field and laboratory data. Relevant DQO steps are summarised in **Table 5**.

Table 5: Data Quality Objectives

Step	Description
Step 1: State the Problem	
It is unknown if the site is suitable for its intended use from a contaminated land perspective. If contamination is present, as a result of the identified PCAs, what remedial or management measures are required to render the site suitable.	
Step 2: Identify the Decision	
The purpose of this step is to define the decision statement that the sampling undertaken in conjunction with the PSI will attempt to resolve, based on the problem stated above in Step 1. The decision statement can be summarised as follows: *To assess whether the site is suitable for ongoing commercial/industrial land uses from a contaminated land perspective.* *If unsuitable, to provide sufficient information to develop remediation or management strategies to render the site suitable for the current or proposed land uses, from a contamination perspective.*	
Step 3: Decision Inputs	
The primary inputs required to meet the Decision include: • Soil sampling to obtain samples representative of the relevant media. • Compare concentrations of contaminants in soil against the adopted site assessment criteria. • Assess, to the extent permitted by the sampling program, the presence, nature and extent of contamination as a result of the identified PCA.	
Step 4: Define Boundaries	
The boundaries of the site area being identified in Section 2. A summary of the target population, temporal and geographic boundaries including constraints is provided below: • **Target Populations**: The target population for this study comprises the environmental samples of site area. • **Temporal Boundaries**: The temporal boundaries included in the decision-making process are based on the current environmental condition of the site at the time of investigation.	
Step 5: Decision Rules	
The following outlines the key drivers and relevant decision rules that will be applied in the decision-making process: • Assess the need for further investigation, more detailed assessment of risk, management controls and/ or remediation if chemical concentrations are found to exceed adopted assessment criteria. • The safety of current and future users of the site. The analytical and field data generated through the assessment process will be compared to the adopted site assessment criteria, and the decision rules become: • If soil concentrations are greater than the adopted criteria, further assessment may be required, comprising one or more of the following: o Further assessment of soils to determine nature and extent of detected contaminants. o Development of remediation plans; and/ or management plans. • If contaminant concentrations in soil are less than the adopted assessment criteria, then further characterisation is unlikely to be required.	
Step 6: Decision Errors	

Step	Description
	The Tolerable Limits on Decision Errors are considered during the sampling and analysis planning stage of the project. Data Quality Indicators (DQIs) are used to establish the acceptance criteria of the field and laboratory components of the assessment. They are defined in terms of Precision, Accuracy, Representativeness, Completeness and Comparability (PARCC). The assessment of the DQIs is a means to determine the useability of the data and includes an evaluation of the data's PARCC. The potential for significant decisions errors (sampling and/or measurement errors) is limited by: • Presentation of the sampling plans, field methods and laboratory methods (Section 4) that describe sampling density, sample collection, contaminants of concern and laboratory analysis. • Review of the Field and Laboratory QA/QC program (Section 4). Provide comment on the overall adequacy of the QA/QC program for the purpose of this report.
Step 7: Optimisation	
	The sampling design has been developed to target soils at the site which may be impacted by the PCAs, Steps 1 to 6 of the DQO process were used to refine the sampling design and field/laboratory methodologies described in Section 4. The sampling design has therefore been developed to optimise the collection of data needed to meet the project objective and DQOs. It is noted that variability in site conditions and contaminant concentrations may have an effect on the sampling design. Field screening methodologies and observations will be used to assist in the collection of representative data.

4.2 Sampling Plan and Scope of Work

Given the potential for diffuse sources of PFAS and the possible presence of fill of unknown origin a systematic sampling regime was adopted to assess the site. In accordance with Table 2 of the NSW (2022) Sampling Design Guidelines for Contaminated Land – Part 1, 31 sample locations were adopted for a site area of 10,000m^2 which exceeds the requirements of the NSW (2022) Sampling Design Guidelines.

Sample locations were on an approximate 20-30m grid and were modified were required to access constraints and/or underground services. Notably the active carpark areas could not be targeted during the assessment. However sufficient overall assessment has been completed to verify the contamination status of soils within the site area for the purpose of determining the suitability of the site for commercial land uses.

The following scope of work was implemented:

- Collection of soil samples from 31 boreholes, test pits and hand augers. Logs are provided in **Appendix B**.
- Submission of select soil samples to a NATA accredited laboratory to evaluate concentrations of CoCs.
- Comparison of soil analysis data against the following adopted assessment criteria:
    - Airports (Environment Protection) Regulations 1997 (AEPR) provides Soil Pollution – Accepted Limits (General Airport Area) for TPH, BTEX, PAHs, PCBs, Phenols, pesticides and metals.
    - NEPM (2013) Health Investigation Levels (HIL) for direct contact with soils. Provides health investigation levels for pesticides, metals, hydrocarbons for a commercial/ industrial (HIL D) land use setting.
    - NEPM (2013) Health Screening Levels (HSL) for vapour intrusion risk. Provides screening values for petroleum hydrocarbons (Total Recoverable Hydrocarbons [TRH] and BTEXN) for a commercial/ industrial (HSL D) land use setting. Sand soil type, soil depth 0-<1 m.
    - NEPM (2013) Ecological Investigation Levels (EIL) for a commercial/industrial (HIL D) land use setting.

- PFAS NEMP V2 – HIL D land use criterion adopted on the basis the site will be used for commercial purposes.
- PFAS NEMP V2 – Ecological soil guideline value of indirect exposure (EIE). Agon propose a revised less conservative EIE value of 0.14mg/kg on the following basis:
  - The site area (and broader Canberra Airport footprint) is free of secondary consumers (carnivores) with fauna being actively managed within the Canberra Airport.
  - The site is within an urban setting.
  - The site is not in close proximity to waterways, drainage networks or groundwater (refer Section 2.5 and Section 2.6).

4.3 Field Methodology

The field methodology implemented to assess the site is outlined in **Table 6**, sample locations are shown in **Figure 3**.

Table 6: Field Methodology

Step	Description
Sample Recovery Sample Collection	Samples were collected by Agon Environmental from augered boreholes and test pits advanced within the site area across four mobilisations. Samples were collected using a freshly nitrile gloved hand and placed into laboratory supplied containers before being sent to the NATA accredited analysing laboratory under chain-of-custody documentation. This methodology is consistent with industry standards. Agon acknowledge soil sampling from auger cutting is not preferred (due to potential volatile organic compound [VOC] loss) however VOCs have not been identified as a contaminant of concern. Furthermore, representative samples were collected from the test pit sample locations confirming the absence of VOCs in site soils. Irrespective the sample methodology is considered adequate to assess for the presence of contamination to soils at the site for the purpose of a proposed commercial/industrial land uses.
Field Screening	The in-situ soils were visually screened by Agon during the investigation for changes in lithology and/ or at the presence of visual or olfactory indicators contamination. In addition, a Photo-Ionisation Device (PID) was used to screen soils at the site for presence of VOCs.
QA/QC Evaluation	Agon adopted and reviewed the following QA/QC: • **Field Personnel**: The field sampling team included John O'Brien and Kurt Lockwood, who collectively have over 15 years' experience in the field of contaminated land assessment. • **Decontamination/Rinsate Blank**: Due to PFAS being identified as a potential contaminant of concern the auger was periodically decontaminated with a Liquinox® Anionic Detergent solution followed by rinsing in a series of three fresh potable water buckets. Two Rinsate blank samples (RB01 and Rinsate 5.12.23) wer analysed as part of the assessment to verify that reusable equipment utilised as part of the LDSI were adequately decontaminated. The RB results are presented in Table 3 **Appendix B**. In summary no detectable PFAS concentrations detected confirming adequate decontamination between sample locations occurred. • **Sample Handling** - Samples (soil) were kept in appropriate laboratory supplied containers. All samples were received by the analysing laboratory within holding time and under chain of custody documentation. • **Trip Spike** – A trip spike was utlised during the fourth mobilization, recoveries were between 93-110% indicating adequate recovery. Given the site history indicating negligible risks of hydrocarbon contamination extensive use of trip spikes across all sampling events was not considered warranted. • **Trip Blank** – A trip spike was utlised during the fourth mobilization indicating there to have been no cross contamination during transport to the laboratory. It is evident upon review of the soil analysis results cross contamination of the samples during transport to the laboratory did not occur.

Step	Description

	• **Field Duplicates**: Eleven intra and two inter laboratory duplicates were assessed as part of the LDSI, refer Table 2 **Appendix B**. Results of which were compared to calculate Relative Percent Difference (RPD) which were within the acceptable range with the exception of:
	  ○ QC10:BH18-0.1: Zinc (52%) the elevated RPD was attributed to heterogeneity of reworked clays within the fill profile.
	  ○ QC402:BH18-0.1: Sum of PFHxS and PFOS (63%) the elevated RPD was attributed to heterogeneity of reworked clays within the fill profile.
	  ○ QC201:BH101-0.1: Sum of PFHxS and PFOS (60%) the elevated RPD was attributed to heterogeneity of reworked clays within the fill profile.
	• **Duplicate Rate** - The ASC (2013) NEPM requires at least 5% of samples of the site be assessed to verify the precision of the laboratory via intra and inter laboratory duplicates. Sufficient duplicates have been assessed to meet this requirement.
	• **Laboratory QA/QC**: A review of the laboratory QA/QC including Method Blanks, Spike Recoveries and RPDs indicated these to be within the acceptable range with the exception of:
	  ○ 940583-S: A RPD exceedance for Lead was reported however the result passed the Eurofins Environment Testing's QC – Acceptance Criteria.
	  ○ 940583-S: Three spike recovery results for PAHs were outside the acceptance criteria, however an acceptable spike recovery was obtained for the laboratory control sample indicating a sample matrix interference.
	Overall, the degree of QA/QC employed is considered appropriate for the purpose of the assessment. The accuracy and precision of the dataset is adequate to support the findings of the report and the DQOs established for the project.

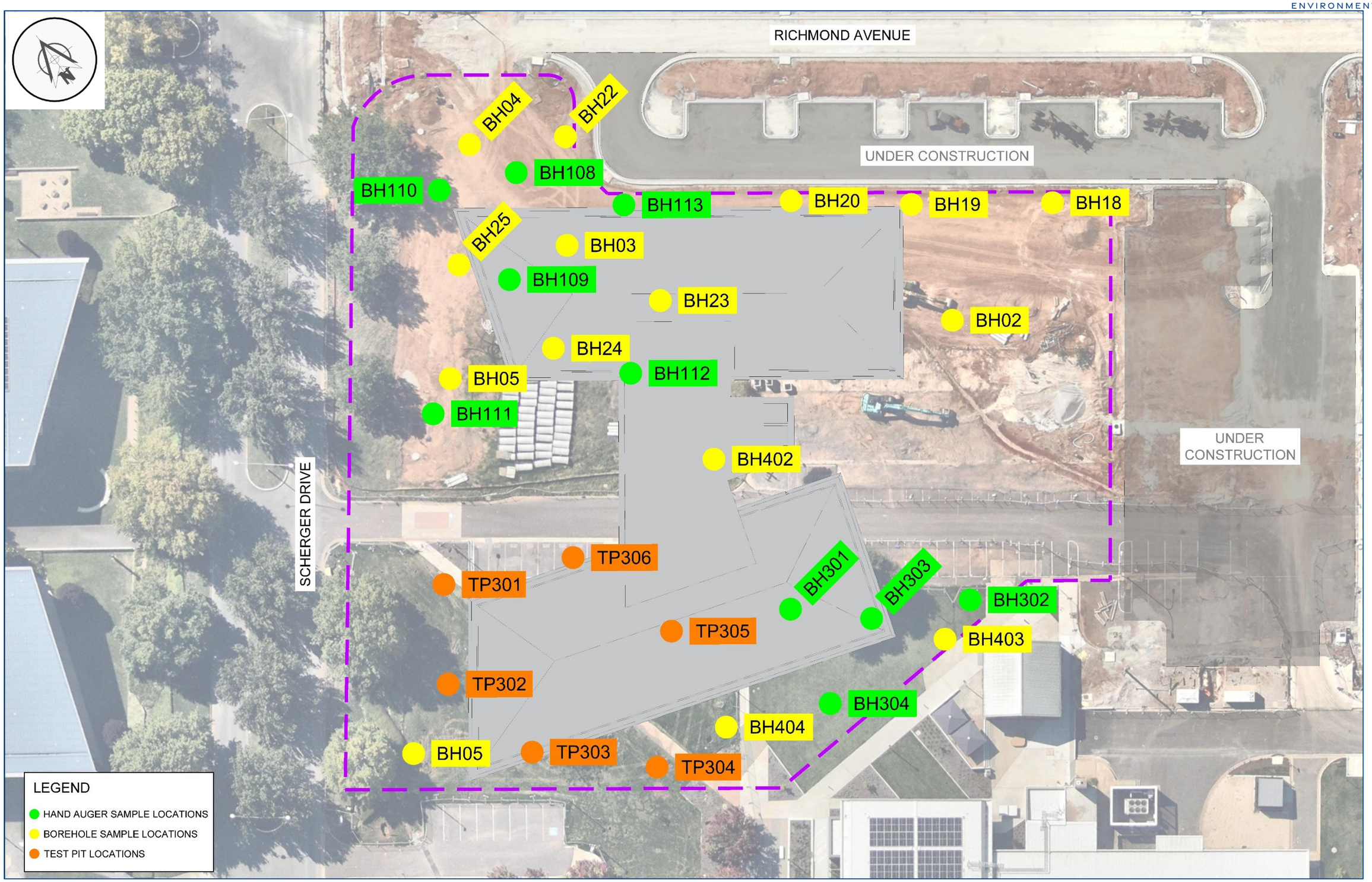

Figure 3: Sample Location Plan
Source: Nearmap (2024)

4.4 Results

4.4.1 Soil Observations

Generally, in-situ soil conditions comprised topsoil which was typically logged to depths of to 200mm and was underlain by alluvium (sandy clays to clays), bedrock was encountered between depths of 1.4 and 2.8 mbgl below alluvium. Asphalt (50mm) with 200mm of road base gravels is expected within the carpark area but is not considered to pose a contamination risk. Logs are provided in **Appendix B**.

No odours, staining, anthropogenic inclusions or elevated PID readings (all <5ppm) were observed during the in-situ soil assessment.

4.4.2 Soil Analysis Results

Tabulated soil analysis results are provided in **Appendix C** along with the corresponding laboratory certificates provided in **Appendix D**. In summary, all soil analysis results were less than the adopted assessment criteria and the corresponding Airports (Environment Protection) Regulations 1997 Soil Pollution – Accepted Limits (General Airport Area) with the exception of:

- 2 detections of PFOS in excess of the PFAS NEMP V2 Ecological Indirect Exposure (EIE) criterion of 0.14 mg/kg, concentrations ranged from 0.18 to 1.3 mg/kg. These exceedances are shown below in Table 7 which provide a summary of PFAS detections at the site.

PFAS General Summary

Low concentrations (i.e. at or above the laboratory limit of reporting of 0.005 mg/kg) of Sum (PFHxS + PFOS) were noted at the following sample locations summarised in **Table 7**.

Table 7: Concentrations of PFAS

Sample Location & Depth	Sum PFHxS + PFOS (mg/kg)	Sample Location & Depth	Sum PFHxS + PFOS (mg/kg)
TP 306 - 1.0	1.311	TP 304 - 1.0	0.019
BH 301 - 0.35	0.18	BH111 - 0.1	0.016
BH403 - 3.0	0.138	BH113 - 0.1	0.015
BH 303 - 0.5	0.081	BH403 - 0.5	0.355
TP 305 - 0.5	0.066	TP 303 - 0.2	0.013
BH114 - 0.1	0.053	BH03 - 0.1	0.011
TP 301 - 0.2	0.0567	BH24 - 0.1	0.011
BH404 - 0.5	0.048	BH402 - 1.0	0.0509
BH405 - 0.5	0.042	BH106 - 0.1	0.0077
TP 302 - 0.5	0.046	BH18 - 0.1	0.0073
BH112 - 0.1	0.033	BH19 - 0.1	0.0073
TP 306 - 0.2	0.03	BH108 - 0.3	0.0072
BH 304 - 0.5	0.029	BH02 - 0.1	0.0054
NB: Laboratory limit of reporting (LOR) is 0.005 mg/kg			

4.5 Conceptual Site Model

A Conceptual Site Model (CSM) provides the framework for evaluating contaminant source-pathway-receptor linkages as a result of PCAs which may have occurred at the site. Any linkages may be presented as complete or incomplete thereby establishing a potential exposure pathway that may, depending on the nature of the proposed land use, warrant further assessment.

On the basis of site history, previous investigations and the soil analysis data, Agon has evaluated the PCAs through a CSM to determine if there are any complete contaminant source-pathway-receptor linkages.

Table 8: CSM

PCA	Source/CoCs	Receptor	Pathway
PCA01 **PFAS Impacts**	Site soils may by impacted by PFAS.	Soil Ecosystem Groundwater Ecosystem Workers Occupants	Migration and Exposure Pathway **incomplete**. Pathway negated by: • All analysis results were less than the adopted assessment criteria with the exception of two EIE exceedances for PFOS. • EIE exceedances were reported at the site, however these impacts are not considered to pose a completed contaminant source-pathway-receptor linkage to primary/secondary consumers as the site is proposed to be developed as commercial complex.
PCA02 **Potential Fill of Unknown Origin**	Uncontrolled fill of unknown origin may be contaminated.	Soil Ecosystems Groundwater Ecosystems Workers Occupants	Migration and Exposure Pathway **incomplete**. Pathway negated by: • A limited amount of fill was identified to be present at the site. • All analysis results were less than the adopted assessment criteria.

In summary:

- Between 45-48 samples were analysed for a broad range of analytes including TRH, BTEX, PCBs, PAHs, Phenols, OCP, Metals and PFAS. Soil analysis data did not identify the presence of chemical contamination with the exception of low concentrations of Sum (PFHxS + PFOS) within soils at the site.

The CSM has considered both qualitative and quantitative data and has not identified any completed contaminant source-pathway-receptor linkages.

4.6 Development Soil Management

Any soils disturbed during development works are subject to implementation of the following documents:

- CAG (2024) 19-21 Scherger Drive Construction Environmental Management Plan.
- Canberra Airport PFAS Soil Management Framework.

5.0 CONCLUSION

In summary, the site was developed for residential land uses and carparking. The surrounding areas were in the initial stages of the development from the 1950's and have been progressively developed up until the late 2020's. In 2023 the residential buildings were removed.

Two PCAs were identified: potential PFAS impacts (to soils); and potential fill of unknown origin. These PCAs have been qualitatively and quantitatively assessed through a site sampling program and development of a CSM which did not identify any complete contaminant source-pathway-linkages. On this basis, Agon conclude the site to be suitable for the development of a commercial complex and any other permitted commercial uses under the 2020 Canberra Airport Masterplan.

6.0 LIMITATIONS OF THIS REPORT

This report has been prepared in accordance with industry recognised standards and procedures current at the time of the work. The report presents the results of the assessment based on the quoted scope of works (unless otherwise agreed in writing) for the specific purposes of the engagement by the Client. No warranties expressed or implied are offered to any third parties and no liability will be accepted for use of this report by third parties.

Collection and laboratory analysis of environmental media (i.e., samples of soil, groundwater, soil vapour and building material) has not been undertaken as part of the reported site assessment. Conclusions in relation to potential site contamination and associated human health and ecological risks are based on historical and current onsite and offsite land uses and activities identified by this assessment and are made in the context of proposed land uses at the site.

Demolition or refurbishment of existing structures or subsequent intrusive assessments (onsite or offsite) may reveal site contamination impacts to onsite environmental media or buildings that could not have been anticipated at the time of publication of this report but may alter the assessment of human health and ecological risks at the site. Agon assumes no liability for such impacts not visible or reasonably expected based on available site information.

Although no onsite sources of groundwater contamination were identified during this investigation, given the regional history of land use around the site, groundwater contamination may have occurred in the vicinity of the site. Groundwater investigation was excluded from the scope of this investigation and comments in relation to potential groundwater at the site have been excluded from this report.

All information provided by third parties has been assumed to be correct and complete. Agon does not assume any liability for misrepresentation of information by third parties or for matters not visible, accessible or present on the subject site.

Opinions and judgements expressed herein are based on Agon's understanding of current regulatory standards and should not be construed as legal opinions.

No responsibility is accepted for use of any part of this report in any other context or for any other purpose or by third parties other than those listed above.

This report should be read in full.

7.0 REFERENCES

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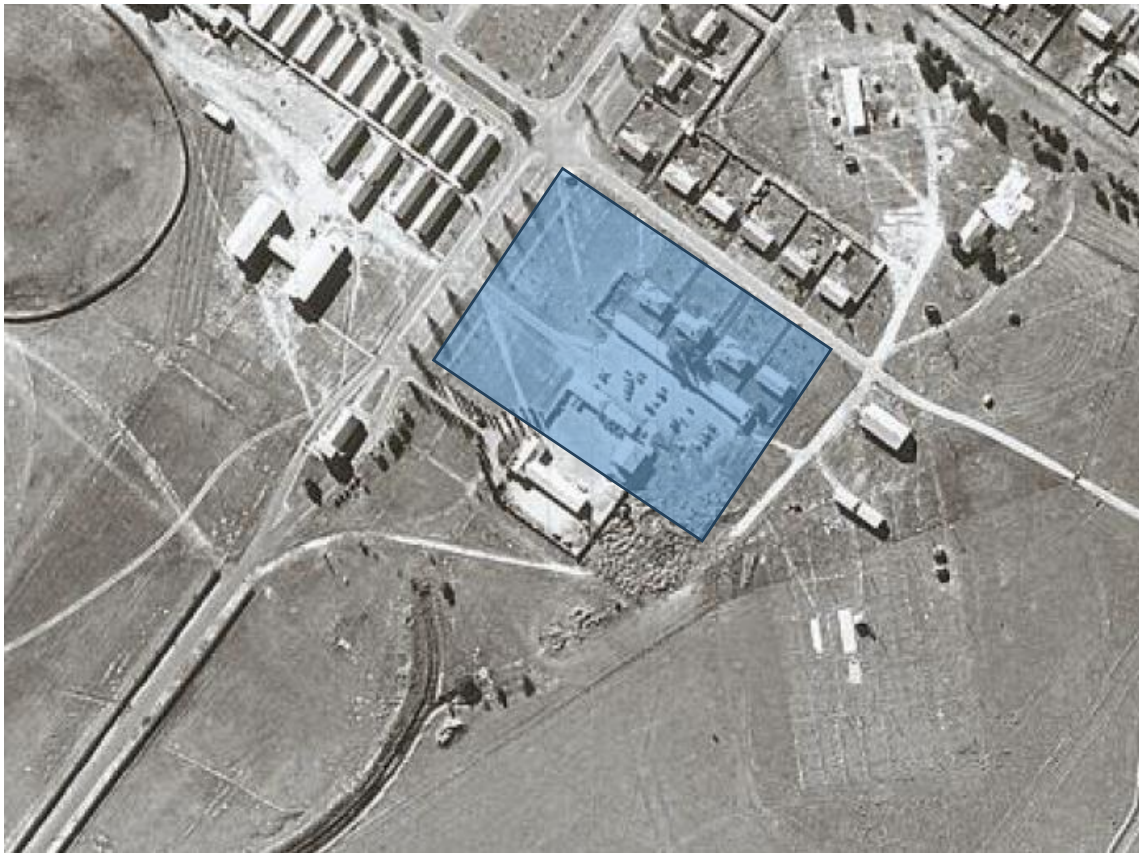
NEMP 2.0 Heads of EPA (2020) 'PFAS National Environmental Management Plan, Version 2.0 –January 2020.

NSW EPA (2020) Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Sites.

Standards Australia (2005) Guide to the investigation and sampling of sites with potentially contaminated soil. Part 1: Non-volatile and semi-volatile compounds AS4482.1 (2005) and Part 2: Volatile substances, AS4482.2 (2005) (hereafter AS4482.1 and AS4482.2).

APPENDIX A: AERIAL IMAGERY



Historical Aerial Photograph 1: 1958

Historical Aerial Photograph 2: 1968

Historical Aerial Photograph 3: 1977

Historical Aerial Photograph 4: 1987

Historical Aerial Photograph 5: 1997

Historical Aerial Photograph 6: 2004

Historical Aerial Photograph 7: 2006

Historical Aerial Photograph 9: 2014

Historical Aerial Photograph 10: 2022

Historical Aerial Photograph 11: 2024

APPENDIX B: BOREHOLE LOGS

ENVIRONMENTAL BOREHOLE LOG

PROJECT NUMBER JC1147
PROJECT NAME Fairbairn
CLIENT Canberra Airport Group
ADDRESS 21 Scherger Drive, Fairbairn, ACT

DRILL MODEL JCB3CX Backhoe
DRILL METHOD Auger
TOTAL DEPTH 2.0m
DIAMETER 300mm
DRILLING COMPANY Ground Control ACT

BOREHOLE NUMBER BH02
DRILLING DATE 31/10/2022

COMMENTS

LOGGED BY KL
CHECKED BY JO

Depth	PID (ppb)	Graphic Log	Material Description	Additional Observations
0.1			Silty clayey SAND, fine to coarse sand, loose, low plasticity, dark brown.	Topsoil.
0.2			Sandy CLAY, fine to coarse sands, firm to stiff, low to medium plasticity, some fine to coarse sub-rounded gravel, red-brown, moist.	Alluvium.
1			Clayey, SAND, fine to coarse sands, stiff, low to medium plasticity, fine to coarse sub-rounded gravel, brown, moist.	Alluvium
1.3			Clayey SAND, fine to coarse sand, dense, low plasticity, fine to coarse sub-angular gravel, brown, moist.	Residual.

ENVIRONMENTAL BOREHOLE LOG

PROJECT NUMBER JC1147
PROJECT NAME Fairbairn
CLIENT Canberra Airport Group
ADDRESS 21 Scherger Drive, Fairbairn, ACT

DRILL MODEL JCB3CX Backhoe
DRILL METHOD Auger
TOTAL DEPTH 2.0m
DIAMETER 300mm
DRILLING COMPANY Ground Control ACT

BOREHOLE NUMBER BH03
DRILLING DATE 31/10/2022

COMMENTS

LOGGED BY KL
CHECKED BY JO

Depth	PID (ppb)	Graphic Log	Material Description	Additional Observations
0.1			Silty clayey SAND, fine to coarse sand, loose, low plasticity, dark brown.	Topsoil.
0.2			Sandy CLAY, fine to coarse sands, firm to stiff, low to medium plasticity, some fine to coarse sub-rounded gravel, red-brown, moist.	Alluvium.
0.9			Sandy CLAY, fine to coarse sands, stiff, low to medium plasticity, some fine to coarse sub-rounded gravel, brown, moist.	Alluvium

ENVIRONMENTAL BOREHOLE LOG

PROJECT NUMBER JC1147
PROJECT NAME Fairbairn
CLIENT Canberra Airport Group
ADDRESS 21 Scherger Drive, Fairbairn, ACT

DRILL MODEL JCB3CX Backhoe
DRILL METHOD Auger
TOTAL DEPTH 2.0m
DIAMETER 300mm
DRILLING COMPANY Ground Control ACT

BOREHOLE NUMBER BH04
DRILLING DATE 31/10/2022

COMMENTS

LOGGED BY KL
CHECKED BY JO

Depth	PID (ppb)	Graphic Log	Material Description	Additional Observations
0.1			Silty clayey SAND, fine to coarse sand, loose, low plasticity, dark brown.	Topsoil.
0.2			Sandy CLAY, fine to medium sands, firm to stiff, low to medium plasticity, some fine to coarse sub-rounded gravel, red-brown, moist.	Alluvium.
1.3			Sandy CLAY, fine to coarse sands, stiff, low to medium plasticity, some fine to coarse sub-rounded gravel, brown, moist.	Alluvium
1.9			Clayey SAND, fine to coarse sand, dense, low plasticity, fine to coarse sub-angular gravel, brown, moist.	Residual.

ENVIRONMENTAL BOREHOLE LOG

PROJECT NUMBER JC1147
PROJECT NAME Fairbairn
CLIENT Canberra Airport Group
ADDRESS 21 Scherger Drive, Fairbairn, ACT

DRILL MODEL JCB3CX Backhoe
DRILL METHOD Auger
TOTAL DEPTH 1.0m
DIAMETER 300mm
DRILLING COMPANY Ground Control ACT

BOREHOLE NUMBER BH13
DRILLING DATE 1/11/2022

COMMENTS

LOGGED BY KL
CHECKED BY JO

Depth	PID (ppb)	Graphic Log	Material Description	Additional Observations
0.05			Asphalt.	Asphalt.
0.1			Sandy GRAVEL, fine to medium angular gravel, loose, grey, moist.	Road base.
0.2			Sandy CLAY, fine to coarse sand, firm to stiff, low plasticity, red-brown, moist.	Alluvium.
0.25				
0.3				
0.35				
0.4				
0.45				
0.5				
0.55				
0.6				
0.65				
0.7				
0.75				
0.8				
0.85				
0.9				
0.95				

ENVIRONMENTAL BOREHOLE LOG

PROJECT NUMBER JC1147
PROJECT NAME Fairbairn
CLIENT Canberra Airport Group
ADDRESS 21 Scherger Drive, Fairbairn, ACT

DRILL MODEL JCB3CX Backhoe
DRILL METHOD Auger
TOTAL DEPTH 1.0m
DIAMETER 300mm
DRILLING COMPANY Ground Control ACT

BOREHOLE NUMBER BH18
DRILLING DATE 7/11/2022

COMMENTS

LOGGED BY KL
CHECKED BY JO

Depth	PID (ppb)	Graphic Log	Material Description	Additional Observations
0.05 0.1 0.15 0.2			Silty clayey SAND, fine to coarse sand, loose, low plasticity, dark brown.	Topsoil.
0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8			Sandy CLAY, fine to coarse sand, firm to stiff, medium plasticity, traces of sub-rounded gravel, red-brown, moist.	Alluvium.
0.85 0.9 0.95			Sandy CLAY, fine to coarse sands, firm, low to medium plasticity, some fine to coarse sub-rounded gravel, brown, moist.	Alluvium.

ENVIRONMENTAL BOREHOLE LOG

PROJECT NUMBER JC1147
PROJECT NAME Fairbairn
CLIENT Canberra Airport Group
ADDRESS 21 Scherger Drive, Fairbairn, ACT

DRILL MODEL JCB3CX Backhoe
DRILL METHOD Auger
TOTAL DEPTH 1.6m
DIAMETER 300mm
DRILLING COMPANY Ground Control ACT

BOREHOLE NUMBER BH19
DRILLING DATE 7/11/2022

COMMENTS

LOGGED BY KL
CHECKED BY JO

Depth	PID (ppb)	Graphic Log	Material Description	Additional Observations
0.1			Silty clayey SAND, fine to coarse sand, loose, low plasticity, dark brown.	Topsoil.
0.2			Sandy CLAY, fine to coarse sand, firm to stiff, medium plasticity, traces of sub-rounded gravel, red-brown, moist.	Alluvium.
1.4			Sandy CLAY, fine to coarse sand, some fine to coarse angular to rounded gravel, stiff to very stiff, medium plasticity, some ferruginous nodules, yellow-brown, moist.	Residual.
1.6				Refusal @1.6m on rock.

ENVIRONMENTAL BOREHOLE LOG

PROJECT NUMBER JC1147
PROJECT NAME Fairbairn
CLIENT Canberra Airport Group
ADDRESS 21 Scherger Drive, Fairbairn, ACT

DRILL MODEL JCB3CX Backhoe
DRILL METHOD Auger
TOTAL DEPTH 2.0m
DIAMETER 300mm
DRILLING COMPANY Ground Control ACT

BOREHOLE NUMBER BH20
DRILLING DATE 7/11/2022

COMMENTS

LOGGED BY KL
CHECKED BY JO

Depth	PID (ppb)	Graphic Log	Material Description	Additional Observations
0.1			Silty clayey SAND, fine to coarse sand, loose, low plasticity, dark brown.	Topsoil.
0.2			Sandy CLAY, fine to coarse sand, firm to stiff, medium plasticity, traces of sub-rounded gravel, red-brown, moist.	Alluvium.
1.4			Sandy CLAY, fine to coarse sand, some fine to coarse angular to rounded gravel, stiff to very stiff, medium plasticity, some ferruginous nodules, yellow-brown, moist.	Residual.

ENVIRONMENTAL BOREHOLE LOG

PROJECT NUMBER JC1147
PROJECT NAME Fairbairn
CLIENT Canberra Airport Group
ADDRESS 21 Scherger Drive, Fairbairn, ACT

DRILL MODEL JCB3CX Backhoe
DRILL METHOD Auger
TOTAL DEPTH 2.0m
DIAMETER 300mm
DRILLING COMPANY Ground Control ACT

BOREHOLE NUMBER BH22
DRILLING DATE 7/11/2022

COMMENTS

LOGGED BY KL
CHECKED BY JO

Depth	PID (ppb)	Graphic Log	Material Description	Additional Observations
0.1			Silty clayey SAND, fine to coarse sand, loose, low plasticity, dark brown.	Topsoil.
0.2			Sandy CLAY, fine to coarse sand, firm to stiff, medium plasticity, traces of sub-rounded gravel, red-brown, moist.	Alluvium.
1.4			Sandy CLAY, fine to coarse sand, some fine to coarse angular to rounded gravel, stiff to very stiff, medium plasticity, some ferruginous nodules, yellow-brown, moist.	Residual.

ENVIRONMENTAL BOREHOLE LOG

PROJECT NUMBER JC1147
PROJECT NAME Fairbairn
CLIENT Canberra Airport Group
ADDRESS 21 Scherger Drive, Fairbairn, ACT

DRILL MODEL JCB3CX Backhoe
DRILL METHOD Auger
TOTAL DEPTH 2.0m
DIAMETER 300mm
DRILLING COMPANY Ground Control ACT

BOREHOLE NUMBER BH23
DRILLING DATE 7/11/2022

COMMENTS

LOGGED BY KL
CHECKED BY JO

Depth	PID (ppb)	Graphic Log	Material Description	Additional Observations
0.1			Silty clayey SAND, fine to coarse sand, loose, low plasticity, dark brown.	Topsoil.
0.2			Sandy CLAY, fine to coarse sand, firm to stiff, medium plasticity, traces of sub-rounded gravel, red-brown, moist.	Alluvium.
1.4			Sandy CLAY, fine to coarse sand, some fine to coarse angular to rounded gravel, stiff to very stiff, medium plasticity, some ferruginous nodules, yellow-brown, moist.	Residual.

ENVIRONMENTAL BOREHOLE LOG

PROJECT NUMBER JC1147
PROJECT NAME Fairbairn
CLIENT Canberra Airport Group
ADDRESS 21 Scherger Drive, Fairbairn, ACT

DRILL MODEL JCB3CX Backhoe
DRILL METHOD Auger
TOTAL DEPTH 2.0m
DIAMETER 300mm
DRILLING COMPANY Ground Control ACT

BOREHOLE NUMBER BH24
DRILLING DATE 7/11/2022

COMMENTS

LOGGED BY KL
CHECKED BY JO

Depth	PID (ppb)	Graphic Log	Material Description	Additional Observations
0.1			Silty clayey SAND, fine to coarse sand, loose, low plasticity, dark brown.	Topsoil.
0.2			Sandy CLAY, fine to coarse sand, firm to stiff, medium plasticity, traces of sub-rounded gravel, red-brown, moist.	Alluvium.
1.4			Sandy CLAY, fine to coarse sand, some fine to coarse angular to rounded gravel, stiff to very stiff, medium plasticity, some ferruginous nodules, yellow-brown, moist.	Residual.

ENVIRONMENTAL BOREHOLE LOG

PROJECT NUMBER JC1147
PROJECT NAME Fairbairn
CLIENT Canberra Airport Group
ADDRESS 21 Scherger Drive, Fairbairn, ACT

DRILL MODEL JCB3CX Backhoe
DRILL METHOD Auger
TOTAL DEPTH 2.0m
DIAMETER 300mm
DRILLING COMPANY Ground Control ACT

BOREHOLE NUMBER BH25
DRILLING DATE 7/11/2022

COMMENTS

LOGGED BY KL
CHECKED BY JO

Depth	PID (ppb)	Graphic Log	Material Description	Additional Observations
0.1			Silty clayey SAND, fine to coarse sand, loose, low plasticity, dark brown.	Topsoil.
0.2			Sandy CLAY, fine to coarse sand, firm to stiff, medium plasticity, traces of sub-rounded gravel, red-brown, moist.	Alluvium.
1.4			Sandy CLAY, fine to coarse sand, some fine to coarse angular to rounded gravel, stiff to very stiff, medium plasticity, some ferruginous nodules, yellow-brown, moist.	Residual.

ENVIRONMENTAL BOREHOLE LOG

PROJECT NUMBER JC1147
PROJECT NAME Canberra Airport WC
CLIENT Canberra Airport Group
ADDRESS 19-23 Scherger Drive, Fairbairn ACT 2609

DRILL MODEL Huon - Backhoe
DRILL METHOD Backhoe - 300 mm bucket
TOTAL DEPTH 1.0 m
DIAMETER 300 mm
DRILLING COMPANY Huon

BOREHOLE NUMBER TP301
DRILLING DATE 5/12/2023

COMMENTS

LOGGED BY KL
CHECKED BY JOB

Depth	Graphic Log	Material Description	Additional Observations
0.05		Sandy, SILT, dark brown, moist, soft.	Topsoil.
0.3		Clayey, sandy, SILT, orange-brown, fine-grained sand, soft, moist to dry.	
0.7		Sandy, silty, CLAY, yellow - orange - brown, soft - firm, moist, medium plasticity, trace ferruginous nodules.	Natural.

ENVIRONMENTAL BOREHOLE LOG

PROJECT NUMBER JC1147
PROJECT NAME Canberra Airport WC
CLIENT Canberra Airport Group
ADDRESS 19-23 Scherger Drive, Fairbairn ACT 2609

DRILL MODEL Huon - Backhoe
DRILL METHOD Backhoe - 300 mm bucket
TOTAL DEPTH 1.0 m
DIAMETER 300 mm
DRILLING COMPANY Huon

BOREHOLE NUMBER TP302
DRILLING DATE 5/12/2023

COMMENTS

LOGGED BY KL
CHECKED BY JOB

Depth	Graphic Log	Material Description	Additional Observations
0.05		Sandy, SILT, dark brown, moist, soft, trace small to medium rounded and angular gravel.	Topsoil.
0.1			
0.15			
0.2			
0.25			
0.3		Clayey, sandy, SILT, orange-brown, fine-grained sand, soft, moist to dry.	
0.35			
0.4			
0.45			
0.5			
0.55			
0.6			
0.65			
0.7		Sandy, silty, CLAY, yellow - orange - brown, soft - firm, moist, medium plasticity, trace ferruginous nodules.	Natural.
0.75			
0.8			
0.85			
0.9			
0.95			

ENVIRONMENTAL BOREHOLE LOG

PROJECT NUMBER JC1147
PROJECT NAME Canberra Airport WC
CLIENT Canberra Airport Group
ADDRESS 19-23 Scherger Drive, Fairbairn ACT 2609

DRILL MODEL Huon - Backhoe
DRILL METHOD Backhoe - 300 mm bucket
TOTAL DEPTH 1.0 m
DIAMETER 300 mm
DRILLING COMPANY Huon

BOREHOLE NUMBER TP303
DRILLING DATE 5/12/2023

COMMENTS

LOGGED BY KL
CHECKED BY JOB

Depth	Graphic Log	Material Description	Additional Observations
0.05		Sandy, SILT, dark brown, moist, soft, trace small to medium rounded and angular gravel.	Topsoil.
0.1			
0.15			
0.2			
0.25			
0.3		Clayey, sandy, SILT, orange-brown, fine-grained sand, soft, moist to dry.	
0.35			
0.4			
0.45			
0.5			
0.55			
0.6			
0.65			
0.7		Sandy, silty, CLAY, yellow - orange - brown, soft - firm, moist, medium plasticity, trace ferruginous nodules.	Natural.
0.75			
0.8			
0.85			
0.9			
0.95			

ENVIRONMENTAL BOREHOLE LOG

PROJECT NUMBER JC1147
PROJECT NAME Canberra Airport WC
CLIENT Canberra Airport Group
ADDRESS 19-23 Scherger Drive, Fairbairn ACT 2609

DRILL MODEL Huon - Backhoe
DRILL METHOD Backhoe - 300 mm bucket
TOTAL DEPTH 1.0 m
DIAMETER 300 mm
DRILLING COMPANY Huon

BOREHOLE NUMBER TP304
DRILLING DATE 5/12/2023

COMMENTS

LOGGED BY KL
CHECKED BY JOB

Depth	Graphic Log	Material Description	Additional Observations
0.05		Sandy, SILT, dark brown, moist, soft.	Topsoil.
0.3		Clayey, sandy, SILT, orange-brown, fine-grained sand, soft, moist to dry.	
0.7		Sandy, silty, CLAY, yellow - orange - brown, soft - firm, moist, medium plasticity, trace ferruginous nodules.	Natural.

ENVIRONMENTAL BOREHOLE LOG

PROJECT NUMBER JC1147
PROJECT NAME Canberra Airport WC
CLIENT Canberra Airport Group
ADDRESS 19-23 Scherger Drive, Fairbairn ACT 2609

DRILL MODEL Huon - Backhoe
DRILL METHOD Backhoe - 300 mm bucket
TOTAL DEPTH 1.0 m
DIAMETER 300 mm
DRILLING COMPANY Huon

BOREHOLE NUMBER TP305
DRILLING DATE 5/12/2023

COMMENTS

LOGGED BY KL
CHECKED BY JOB

Depth	Graphic Log	Material Description	Additional Observations
0.05		Sandy, SILT, dark brown, moist, soft.	Topsoil.
0.1			
0.15			
0.2			
0.25			
0.3		Clayey, sandy, SILT, orange-brown, fine-grained sand, soft, moist to dry.	
0.35			
0.4			
0.45			
0.5			
0.55			
0.6			
0.65			
0.7		Sandy, silty, CLAY, yellow - orange - brown, soft - firm, moist, medium plasticity, trace ferruginous nodules.	Natural.
0.75			
0.8			
0.85			
0.9			
0.95			

ENVIRONMENTAL BOREHOLE LOG

PROJECT NUMBER JC1147
PROJECT NAME Canberra Airport WC
CLIENT Canberra Airport Group
ADDRESS 19-23 Scherger Drive, Fairbairn ACT 2609

DRILL MODEL Huon - Backhoe
DRILL METHOD Backhoe - 300 mm bucket
TOTAL DEPTH 1.0 m
DIAMETER 300 mm
DRILLING COMPANY Huon

BOREHOLE NUMBER TP306
DRILLING DATE 5/12/2023

COMMENTS

LOGGED BY KL
CHECKED BY JOB

Depth	Graphic Log	Material Description	Additional Observations
0.05		Sandy, SILT, dark brown, moist, soft.	Topsoil.
0.1			
0.15			
0.2			
0.25			
0.3		Clayey, sandy, SILT, orange-brown, fine-grained sand, soft, moist to dry.	
0.35			
0.4			
0.45			Garden irrigation pipe @ 0.5m.
0.5			
0.55			
0.6			
0.65			
0.7		Sandy, silty, CLAY, yellow - orange - brown, soft - firm, moist, medium plasticity, trace ferruginous nodules.	Natural.
0.75			
0.8			
0.85			
0.9			
0.95			

ENVIRONMENTAL BOREHOLE LOG

PROJECT NUMBER JC1147
PROJECT NAME Canberra Airport WC
CLIENT Canberra Airport Group
ADDRESS 19-23 Scherger Drive, Fairbairn ACT 2609

DRILL METHOD Hand Auger
TOTAL DEPTH 0.35 m
DIAMETER 120 mm
DRILLING COMPANY Agon

BOREHOLE NUMBER BH301
DRILLING DATE 5/12/2023

COMMENTS

LOGGED BY KL
CHECKED BY JOB

Depth	Graphic Log	Material Description	Additional Observations
0.02		Gravelly, silty, SAND, GREY - dark brown, moist, soft - firm.	Topsoil.
0.04			
0.06			
0.08			
0.1		Sandy, silty, CLAY, orange-brown, moist, soft - firm, medium plasticity.	
0.12			
0.14			
0.16			
0.18			
0.2			
0.22			
0.24			
0.26			
0.28			
0.3			
0.32			
0.34			Refusal on asphalt/concrete @ 0.35m.
0.36			
0.38			
0.4			
0.42			
0.44			
0.46			
0.48			

ENVIRONMENTAL BOREHOLE LOG

PROJECT NUMBER JC1147
PROJECT NAME Canberra Airport WC
CLIENT Canberra Airport Group
ADDRESS 19-23 Scherger Drive, Fairbairn ACT 2609

DRILL METHOD Hand Auger
TOTAL DEPTH 0.5 m
DIAMETER 120 mm
DRILLING COMPANY Agon

BOREHOLE NUMBER BH302
DRILLING DATE 5/12/2023

COMMENTS

LOGGED BY KL
CHECKED BY JOB

Depth	Graphic Log	Material Description	Additional Observations
0.02		Gravelly, silty, SAND, GREY - dark brown, moist, soft - firm., small to large angular gravel.	Topsoil.
0.04			
0.06			
0.08			
0.1			
0.12			
0.14			
0.16			
0.18			
0.2			
0.22			
0.24			
0.26			
0.28			
0.3			
0.32			
0.34			
0.36			
0.38			
0.4			
0.42			
0.44			
0.46			
0.48			

ENVIRONMENTAL BOREHOLE LOG

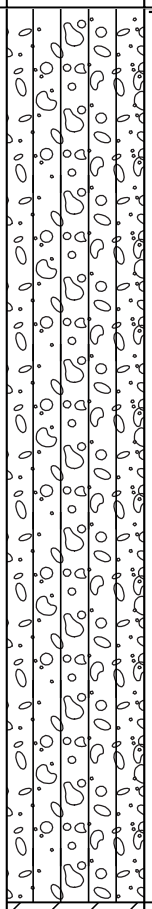
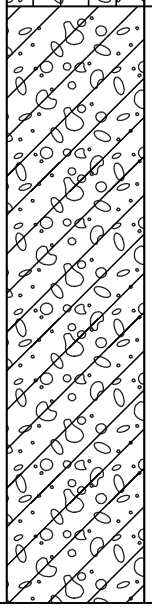
PROJECT NUMBER JC1147
PROJECT NAME Canberra Airport WC
CLIENT Canberra Airport Group
ADDRESS 19-23 Scherger Drive, Fairbairn ACT 2609

DRILL METHOD Hand Auger
TOTAL DEPTH 0.5 m
DIAMETER 120 mm
DRILLING COMPANY Agon

BOREHOLE NUMBER BH303
DRILLING DATE 5/12/2023

COMMENTS

LOGGED BY KL
CHECKED BY JOB

Depth	Graphic Log	Material Description	Additional Observations
0.02		Gravelly, silty, SAND, GREY - dark brown, moist, soft - firm., small to large angular gravel.	Topsoil.
0.04			
0.06			
0.08			
0.1			
0.12			
0.14			
0.16			
0.18			
0.2			
0.22			
0.24			
0.26			
0.28			
0.3		Gravelly, sandy, silty, CLAY, orange-brown, moist, soft - firm, medium plasticity.	
0.32			
0.34			
0.36			
0.38			
0.4			
0.42			
0.44			
0.46			
0.48			

ENVIRONMENTAL BOREHOLE LOG

PROJECT NUMBER JC1147
PROJECT NAME Canberra Airport WC
CLIENT Canberra Airport Group
ADDRESS 19-23 Scherger Drive, Fairbairn ACT 2609

DRILL METHOD Hand Auger
TOTAL DEPTH 0.5 m
DIAMETER 120 mm
DRILLING COMPANY Agon

BOREHOLE NUMBER BH304
DRILLING DATE 5/12/2023

COMMENTS

LOGGED BY KL
CHECKED BY JOB

Depth	Graphic Log	Material Description	Additional Observations
0.02		Gravelly, silty, SAND, GREY - dark brown, moist, soft - firm., small to large angular gravel.	Topsoil.
0.04			
0.06			
0.08			
0.1			
0.12			
0.14			
0.16			
0.18			
0.2			
0.22			
0.24			
0.26			
0.28			
0.3		Gravelly, sandy, silty, CLAY, orange-brown, moist, soft - firm, medium plasticity.	
0.32			
0.34			
0.36			
0.38			
0.4			
0.42			
0.44			
0.46			
0.48			

ENVIRONMENTAL BOREHOLE LOG

PROJECT NUMBER JC1147
PROJECT NAME Canberra Airport WC
CLIENT Canberra Airport Group
ADDRESS 19-21 Scherger Drive, Fairbairn ACT.

DRILL MODEL Excavator
DRILL METHOD Auger
TOTAL DEPTH 2.5 m
DIAMETER 300 mm

BOREHOLE NUMBER BH401
DRILLING DATE 15/03/2024

COMMENTS

LOGGED BY KL
CHECKED BY JOB

Depth	PID (ppm)	Samples	Graphic Log	Material Description	Additional Observations
0.1	> 0.5	BH401-0.1		Sandy, GRAVEL, grey, fine to coarse angular gravel, fine to coarse sand, dry to moist.	Road base.
0.5	> 0.5	BH401-0.5		Sandy, gravelly, CLAY, red-brown, fine to coarse sand, fine to coarse angular gravel, firm, low plasticity, traces of concrete and brick fragments.	Fill.
1	>0.5	BH401-1.0		Clayey, SAND, yellow-brown, fine to coarse sand, dense, low plasticity.	Alluvial.
2	>0.5	BH401-2.0		DACITE, pale brown, fine to coarse grained, dry to moist.	Weathered rock.
2.5	>0.5	BH401-2.5			

Disclaimer This bore log is intended for environmental not geotechnical purposes.

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ENVIRONMENTAL BOREHOLE LOG

PROJECT NUMBER JC1147
PROJECT NAME Canberra Airport WC
CLIENT Canberra Airport Group
ADDRESS 19-21 Scherger Drive, Fairbairn ACT.

DRILL MODEL Excavator
DRILL METHOD Auger
TOTAL DEPTH 3.0 m
DIAMETER 300 mm

BOREHOLE NUMBER BH402
DRILLING DATE 15/03/2024

COMMENTS

LOGGED BY KL
CHECKED BY JOB

Depth	PID (ppm)	Samples	Graphic Log	Material Description	Additional Observations
0	> 0.5	BH402-0.1		Sandy, GRAVEL, grey, fine to coarse angular gravel, fine to coarse sand, dry to moist.	Road base.
				Clayey, SAND, red-brown, fine to coarse sand, dense, low plasticity.	Alluvial.
0.2				Sandy, CLAY, red-brown, fine to coarse sand, firm medium plasticity, dry to moist.	
0.4	> 0.5	BH402-0.5			
0.6					
0.8					
1	>0.5	BH402-1.0		Sandy, CLAY, yellow-brown, fine to coarse sand, firm low to medium plasticity, dry to moist.	
1.2					
1.4					
1.6					
1.8				Clayey, SAND, yellow-brown, fine to coarse sand, dense, low plasticity.	
2	>0.5	BH402-2.0			
2.2				DACITE, pale brown, fine to coarse grained, dry to moist.	Weathered rock.
2.4					
2.6					
2.8					
3					

ENVIRONMENTAL BOREHOLE LOG

PROJECT NUMBER JC1147
PROJECT NAME Canberra Airport WC
CLIENT Canberra Airport Group
ADDRESS 19-21 Scherger Drive, Fairbairn ACT.

DRILL MODEL Excavator
DRILL METHOD Auger
TOTAL DEPTH 3.0 m
DIAMETER 300 mm

BOREHOLE NUMBER BH403
DRILLING DATE 15/03/2024

COMMENTS

LOGGED BY KL
CHECKED BY JOB

Depth	PID (ppm)	Samples	Graphic Log	Material Description	Additional Observations
0	> 0.5	BH403-0.1		ASPHALT	
				Sandy, GRAVEL, grey, fine to coarse angular gravel, fine to coarse sand, dry to moist.	Road base.
0.2				Silty, sandy, CLAY, red-brown, fine to coarse sand, firm medium plasticity, traces of brick, dry to moist.	Alluvial.
0.4	> 0.5	BH403-0.5			
0.6					
0.8				Clayey, SAND, yellow-brown, fine to coarse sand, firm, low plasticity, dry.	Residual soil.
1	>0.5	BH403-1.0			
1.2					
1.4					
1.6					
1.8					
2	>0.5	BH403-2.0		DACITE, pale brown, fine to coarse grained, dry to moist.	Weathered rock.
2.2					
2.4					
2.6					
2.8					
3	>0.5	BH403-3.0			

ENVIRONMENTAL BOREHOLE LOG

PROJECT NUMBER JC1147
PROJECT NAME Canberra Airport WC
CLIENT Canberra Airport Group
ADDRESS 19-21 Scherger Drive, Fairbairn ACT.

DRILL MODEL Excavator
DRILL METHOD Auger
TOTAL DEPTH 3.0 m
DIAMETER 300 mm

BOREHOLE NUMBER BH404
DRILLING DATE 15/03/2024

COMMENTS

LOGGED BY KL
CHECKED BY JOB

Depth	PID (ppm)	Samples	Graphic Log	Material Description	Additional Observations
0	> 0.5	BH404-0.1		Silty, clayey, SAND, brown, fine to coarse sand, soft, dry to moist.	Topsoil.
0.2				Sandy, CLAY, pale brown, fine to coarse angular gravel, firm to stiff, low plasticity, dry to moist.	Fill
0.4	> 0.5	BH404-0.5		Silty, sandy, CLAY, red-brown, fine to coarse sand, firm low plasticity, ferruginous nodules, dry.	Alluvial.
1	>0.5	BH404-1.0			
1.2				Silty, sandy, CLAY, red-brown, fine to coarse sand, firm low plasticity, ferruginous nodules, dry.	
1.8				CLAY, yellow-grey, fine to coarse sand, firm to hard, low plasticity, dry.	Residual soil.
2	>0.5	BH404-2.0		DACITE, pale brown, fine to coarse grained, dry to moist.	Weathered rock.
3	>0.5	BH404-3.0			

ENVIRONMENTAL BOREHOLE LOG

PROJECT NUMBER JC1147
PROJECT NAME Canberra Airport WC
CLIENT Canberra Airport Group
ADDRESS 19-21 Scherger Drive, Fairbairn ACT.

DRILL MODEL Excavator
DRILL METHOD Auger
TOTAL DEPTH 3.0 m
DIAMETER 300 mm

BOREHOLE NUMBER BH405
DRILLING DATE 15/03/2024

COMMENTS

LOGGED BY KL
CHECKED BY JOB

Depth	PID (ppm)	Samples	Graphic Log	Material Description	Additional Observations
0	> 0.5	BH405-0.1		Silty, clayey, SAND, brown, fine to coarse sand, soft, dry to moist.	Topsoil.
0.2				Silty, sandy, CLAY, red-brown, fine to coarse sand, firm low plasticity, ferruginous nodules, dry.	Alluvial.
0.4	> 0.5	BH405-0.5			
0.6					
0.8					
1	>0.5	BH405-1.0			
1.2				Sandy, CLAY, yellow-pale brown, fine to coarse sand with some traces of fine rounded gravel, firm to stiff, medium plasticity,	
1.4				Sandy, CLAY, yellow-grey mottled, fine to coarse sand, firm, medium plasticity, dry.	Residual soil.
1.6					
1.8					
2	>0.5	BH405-2.0			
2.2					
2.4					
2.6					
2.8				DACITE, pale brown, fine to coarse grained, dry to moist.	Weathered rock.
3	>0.5	BH405-3.0			

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ENVIRONMENTAL BOREHOLE LOG

PROJECT NUMBER JC1147
PROJECT NAME Fairbairn
CLIENT Canberra Airport Group
ADDRESS 21 Scherger Drive, Fairbairn, ACT

DRILL MODEL Hand Auger
DRILL METHOD Auger
TOTAL DEPTH 0.5m
DIAMETER 150mm
DRILLING COMPANY Agon Environmental

BOREHOLE NUMBER BH108
DRILLING DATE 25/01/2023

COMMENTS

LOGGED BY KL
CHECKED BY JO

Depth	PID (ppb)	Graphic Log	Material Description	Additional Observations
0.02			Silty clayey SAND, fine to coarse sand, loose, low plasticity, dark brown.	Topsoil.
0.2			Sandy CLAY, fine to coarse sand, firm to stiff, medium plasticity, traces of sub-rounded gravel, red-brown, moist.	Alluvium.

0.04 0.06 0.08 0.1 0.12 0.14 0.16 0.18 0.22 0.24 0.26 0.28 0.3 0.32 0.34 0.36 0.38 0.4 0.42 0.44 0.46 0.48

ENVIRONMENTAL BOREHOLE LOG

PROJECT NUMBER JC1147
PROJECT NAME Fairbairn
CLIENT Canberra Airport Group
ADDRESS 21 Scherger Drive, Fairbairn, ACT

DRILL MODEL Hand Auger
DRILL METHOD Auger
TOTAL DEPTH 0.5m
DIAMETER 150mm
DRILLING COMPANY Agon Environmental

BOREHOLE NUMBER BH109
DRILLING DATE 25/01/2023

COMMENTS

LOGGED BY KL
CHECKED BY JO

Depth	PID (ppb)	Graphic Log	Material Description	Additional Observations
0.02			Silty clayey SAND, fine to coarse sand, loose, low plasticity, dark brown.	Topsoil.
0.2			Sandy CLAY, fine to coarse sands, firm to stiff, low to medium plasticity, some fine to coarse sub-rounded gravel, red-brown, moist.	Alluvium.

0.04 0.06 0.08 0.1 0.12 0.14 0.16 0.18 0.22 0.24 0.26 0.28 0.3 0.32 0.34 0.36 0.38 0.4 0.42 0.44 0.46 0.48

ENVIRONMENTAL BOREHOLE LOG

PROJECT NUMBER JC1147
PROJECT NAME Fairbairn
CLIENT Canberra Airport Group
ADDRESS 21 Scherger Drive, Fairbairn, ACT

DRILL MODEL Hand Auger
DRILL METHOD Auger
TOTAL DEPTH 0.1m
DIAMETER 150mm
DRILLING COMPANY Agon Environmental

BOREHOLE NUMBER BH110
DRILLING DATE 25/01/2023

COMMENTS

LOGGED BY KL
CHECKED BY JO

Depth	PID (ppb)	Graphic Log	Material Description	Additional Observations
0.02			Silty clayey SAND, fine to coarse sand, loose, low plasticity, dark brown.	Topsoil.
0.04				
0.06				
0.08				
0.1				
0.12				
0.14				
0.16				
0.18				
0.2				
0.22				
0.24				
0.26				
0.28				
0.3				
0.32				
0.34				
0.36				
0.38				
0.4				
0.42				
0.44				
0.46				
0.48				

ENVIRONMENTAL BOREHOLE LOG

PROJECT NUMBER JC1147
PROJECT NAME Fairbairn
CLIENT Canberra Airport Group
ADDRESS 21 Scherger Drive, Fairbairn, ACT

DRILL MODEL Hand Auger
DRILL METHOD Auger
TOTAL DEPTH 0.1m
DIAMETER 150mm
DRILLING COMPANY Agon Environmental

BOREHOLE NUMBER BH111
DRILLING DATE 25/01/2023

COMMENTS

LOGGED BY KL
CHECKED BY JO

Depth	PID (ppb)	Graphic Log	Material Description	Additional Observations
0.02			Silty clayey SAND, fine to coarse sand, loose, low plasticity, dark brown.	Topsoil.
0.04				
0.06				
0.08				
0.1				
0.12				
0.14				
0.16				
0.18				
0.2				
0.22				
0.24				
0.26				
0.28				
0.3				
0.32				
0.34				
0.36				
0.38				
0.4				
0.42				
0.44				
0.46				
0.48				

ENVIRONMENTAL BOREHOLE LOG

PROJECT NUMBER JC1147
PROJECT NAME Fairbairn
CLIENT Canberra Airport Group
ADDRESS 21 Scherger Drive, Fairbairn, ACT

DRILL MODEL Hand Auger
DRILL METHOD Auger
TOTAL DEPTH 0.5m
DIAMETER 150mm
DRILLING COMPANY Agon Environmental

BOREHOLE NUMBER BH112
DRILLING DATE 25/01/2023

COMMENTS

LOGGED BY KL
CHECKED BY JO

Depth	PID (ppb)	Graphic Log	Material Description	Additional Observations
0.02			Silty clayey SAND, fine to coarse sand, loose, low plasticity, dark brown.	Topsoil.
0.04				
0.06				
0.08				
0.1				
0.12				
0.14				
0.16				
0.18				
0.2				
0.22				
0.24				
0.26				
0.28				
0.3				
0.32				
0.34				
0.36				
0.38				
0.4				
0.42				
0.44				
0.46				
0.48				

ENVIRONMENTAL BOREHOLE LOG

PROJECT NUMBER JC1147
PROJECT NAME Fairbairn
CLIENT Canberra Airport Group
ADDRESS 21 Scherger Drive, Fairbairn, ACT

DRILL MODEL Hand Auger
DRILL METHOD Auger
TOTAL DEPTH 0.1m
DIAMETER 150mm
DRILLING COMPANY Agon Environmental

BOREHOLE NUMBER BH113
DRILLING DATE 25/01/2023

COMMENTS

LOGGED BY KL
CHECKED BY JO

Depth	PID (ppb)	Graphic Log	Material Description	Additional Observations
0.02			Silty clayey SAND, fine to coarse sand, loose, low plasticity, dark brown.	Topsoil.
0.04				
0.06				
0.08				
0.1				
0.12				
0.14				
0.16				
0.18				
0.2				
0.22				
0.24				
0.26				
0.28				
0.3				
0.32				
0.34				
0.36				
0.38				
0.4				
0.42				
0.44				
0.46				
0.48				

APPENDIX C: ANALYSIS TABLES

agon ENVIRONMENTAL

Table 1 - Soil Analysis Results

Capital Airport Group

				Metals								PAH																			
				Arsenic	Cadmium	Copper	Chromium (III+VI)	Lead	Mercury	Nickel	Zinc	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene TEQ calc (Zero)	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(e)pyrene	Benzo(b+j)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 total)
				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	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				2	0.4	5	5	5	0.1	5	5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Airport Regulations - Area of an airport generally				500	100	5,000		1,500	75	3,000	35,000								5												100
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil				3,000	900	240,000		1,500	730	6,000	400,000					40	40	40													4,000
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																															
NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind				160				1,800																				370			
PFAS NEMP 2020 Ecological indirect exposure																															
PFAS NEMP 2020 Industrial/ commercial (HIL D)																															
Field ID	**Depth**	**Lab Report**	**Matrix Type**																												
BH 301 - 0.35	**0.4**	**1051378**	**Soil**	13	<0.4	19	77	27	<0.1	15	68	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH 302 - 0.2	**0.2**	**1051378**	**Soil**	6.9	10	19	14	420	0.2	5.4	1,800	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH 303 - 0.2	**0.2**	**1051378**	**Soil**	10	4.2	20	18	270	<0.1	6.9	540	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH 303 - 0.5	**0.5**	**1051378**	**Soil**	8.7	0.8	19	63	64	<0.1	13	120	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH 304 - 0.5	**0.5**	**1051378**	**Soil**	6	0.5	18	56	40	<0.1	14	82	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH02 - 0.1	**0.1**	**938250**	**Soil**	4.6	0.5	18	64	40	<0.1	10	120	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH02 - 1.0	**1.0**	**938250**	**Soil**	5.7	<0.4	22	100	20	<0.1	24	34	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH02 - 2.0	**2.0**	**938250**	**Soil**	3.1	<0.4	19	97	12	<0.1	21	49	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH03 - 0.1	**0.1**	**938250**	**Soil**	3.6	<0.4	11	35	25	<0.1	13	34	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1	<0.5	<0.5	<0.5	<0.5	1	2
BH03 - 0.5	**0.5**	**938250**	**Soil**	8	<0.4	21	55	25	<0.1	16	28	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH04 - 0.1	**0.1**	**938250**	**Soil**	3.4	<0.4	12	36	16	<0.1	14	33	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH04 - 0.5	**0.5**	**938250**	**Soil**	5	<0.4	13	49	14	<0.1	10	24	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH108 - 0.1	**0.1**	**958625**	**Soil**	2.4	<0.4	9.7	24	14	<0.1	6.8	29	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH108 - 0.3	**0.3**	**958625**	**Soil**																												
BH108 - 0.5	**0.5**	**958625**	**Soil**																												
BH109 - 0.1	**0.1**	**958625**	**Soil**																												
BH109 - 0.3	**0.3**	**958625**	**Soil**																												
BH109 - 0.5	**0.5**	**958625**	**Soil**	5.8	<0.4	13	44	14	<0.1	7.5	20	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH110 - 0.1	**0.1**	**958625**	**Soil**																												
BH111 - 0.1	**0.1**	**958625**	**Soil**																												
BH112 - 0.1	**0.1**	**958625**	**Soil**	4.7	<0.4	9.8	39	21	<0.1	9.3	28	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH113 - 0.1	**0.1**	**958625**	**Soil**																												
BH13 - 0.1	**0.1**	**938250**	**Soil**	2.5	<0.4	9.5	27	11	<0.1	9.5	47	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH18 - 0.1	**0.1**	**940583**	**Soil**	3	<0.4	13	51	19	<0.1	8.5	30	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH19 - 0.1	**0.1**	**940583**	**Soil**	3.2	<0.4	12	34	18	<0.1	8.6	45	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH19 - 0.5	**0.5**	**940583**	**Soil**	5.8	<0.4	22	60	13	<0.1	17	30	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH20 - 0.1	**0.1**	**940583**	**Soil**	3.9	<0.4	13	45	19	<0.1	9.9	45	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH20 - 0.5	**0.5**	**940583**	**Soil**	5.1	<0.4	15	66	16	<0.1	10	23	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH20 - 1.0	**1.0**	**940583**	**Soil**	5.1	<0.4	17	47	12	<0.1	17	24	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH22 - 0.1	**0.1**	**940583**	**Soil**	2.7	<0.4	9.5	29	14	<0.1	8.8	28	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH22 - 0.5	**0.5**	**940583**	**Soil**	2.8	<0.4	9.9	33	11	<0.1	7.7	23	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH22 - 1.5	**1.5**	**940583**	**Soil**	5.3	<0.4	18	36	17	<0.1	19	22	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH23 - 0.1	**0.1**	**940583**	**Soil**	4.9	<0.4	15	52	15	<0.1	13	40	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH23 - 0.5	**0.5**	**940583**	**Soil**	4.9	<0.4	19	57	17	<0.1	16	27	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH23 - 1.5	**1.5**	**940583**	**Soil**	4.2	<0.4	18	58	15	<0.1	15	26	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH24 - 0.1	**0.1**	**940583**	**Soil**	3.1	<0.4	8.4	29	10	<0.1	7.3	21	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH24 - 0.5	**0.5**	**940583**	**Soil**	3.6	<0.4	9.9	41	11	<0.1	6.9	16	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH24 - 1.0	**1.0**	**940583**	**Soil**																												
BH24 - 1.5	**1.5**	**940583**	**Soil**	6.3	<0.4	21	50	21	<0.1	14	20	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH25 - 0.1	**0.1**	**940583**	**Soil**	3.4	<0.4	8.8	32	14	<0.1	8.2	20	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH25 - 0.5	**0.5**	**940583**	**Soil**	5.8	<0.4	14	41	27	<0.1	8.3	12	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH25 - 1.5	**1.5**	**940583**	**Soil**	6.3	<0.4	19	35	8.7	<0.1	13	26	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH402 - 1.0	**1.0**	**1079805**	**Soil**	7.4	<0.4	26	77	22	<0.1	19	38	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH402 - 2.0	**2.0**	**1079805**	**Soil**	4.4	<0.4	19	95	16	<0.1	23	58	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH403 - 0.1	**0.1**	**1079805**	**Soil**	7.1	<0.4	15	76	18	<0.1	11	31	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH403 - 0.5	**0.5**	**1079805**	**Soil**																												
BH403 - 3.0	**3.0**	**1079805**	**Soil**	<2	<0.4	22	140	6	<0.1	24	65	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH404 - 0.5	**0.5**	**1079805**	**Soil**																												
BH404 - 2.0	**2.0**	**1079805**	**Soil**	3.2	<0.4	21	100	15	<0.1	25	57	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
BH404 - 3.0	**3.0**	**1079805**	**Soil**																												
BH405 - 0.5	**0.5**	**1079805**	**Soil**																												
BH405 - 2.0	**2.0**	**1079805**	**Soil**																												
BH405 - 3.0	**3.0**	**1079805**	**Soil**																												
TP 301 - 0.2	**0.2**	**1051378**	**Soil**	3.7	<0.4	9.9	23	22	<0.1	9.7	51	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
TP 301 - 1.0	**1.0**	**1051378**	**Soil**	8.1	<0.4	21	58	24	<0.1	15	33	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
TP 302 - 0.5	**0.5**	**1051378**	**Soil**	3.5	<0.4	9.1	40	12	<0.1	7.6	23	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
TP 303 - 0.2	**0.2**	**1051378**	**Soil**	6.4	<0.4	9.6	20	15	<0.1	9.9	38	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
TP 303 - 1.0	**1.0**	**1051378**	**Soil**	6.6	<0.4	27	47	15	0.1	22	47	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
TP 304 - 1.0	**1.0**	**1051378**	**Soil**	4.5	<0.4	15	48	9	<0.1	13	27	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
TP 305 - 0.5	**0.5**	**1051378**	**Soil**	3.3	<0.4	14	44	16	<0.1	13	35	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
TP 306 - 0.2	**0.2**	**1051378**	**Soil**	6.2	<0.4	11	29	26	<0.1	8.9	43	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
TP 306 - 1.0	**1.0**	**1051378**	**Soil**	5.6	<0.4	19	67	12	<0.1	16	32	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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
Statistics																															
Number of Results				**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**
Minimum Concentration				**<2**	**<0.4**	**8.4**	**14**	**6**	**0.1**	**5.4**	**12**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**1.2**	**0.6**	**<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**
Maximum Concentration				**13**	**10**	**27**	**140**	**420**	**0.2**	**25**	**1800**	**0**	**0**	**0**	**0**	**0**	**1.2**	**0.6**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**1**	**2**
Average Concentration *				**5.16595745**	**3.2**	**15.7104167**	**51.2083333**	**32.05625**	**0.15**	**12.93125**	**85.6666667**	**-**	**-**	**-**	**-**	**-**	**1.2**	**0.6**	**-**	**-**	**-**	**-**	**-**	**-**	**1**	**-**	**-**	**-**	**-**	**1**	**2**

* A Non Detect Multiplier of 0.5 has been applied.

agon ENVIRONMENTAL

Table 1 - Soil Analysis Results

Capital Airport Group

				BTEX							TRH							TPH																				
				Benzene	Ethylbenzene	Toluene	Naphthalene (VOC)	Xylene (o)	Xylene (m & p)	Xylene Total	C6-C10	C6-C10 (F1 minus BTEX)	C10-C16	C10-C16 (F2 minus Naphthalene)	C16-C34	C34-C40	C10-C40 (Sum of total)	C6-C9	C10-C14	C15-C28	C29-C36	+C10-C36 (Sum of total)	Aldrin	Dieldrin	Aldrin + Dieldrin	DDD	DDT	4,4-DDE	DDT+DDE+DDD	Endosulfan I	Endosulfan II							
				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	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg							
EQL				0.1	0.1	0.1	0.5	0.1	0.2	0.3	20	20	50	50	100	100	100	20	20	50	50	50	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05							
Airport Regulations - Area of an airport generally				1	50	130				25								800				5,000	50	20			1,000										
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																									45				3,600								
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 1B(5) Generic EIL - Comm/Ind																											640										
PFAS NEMP 2020 Ecological indirect exposure																																					
PFAS NEMP 2020 Industrial/ commercial (HIL D)																																					
Field ID	**Depth**	**Lab Report**	**Matrix Type**																																			
BH 301 - 0.35	**0.4**	**1051378**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	180	180	<20	23	<50	97	120	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH 302 - 0.2	**0.2**	**1051378**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	170	140	310	<20	<20	73	140	213	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
BH 303 - 0.2	**0.2**	**1051378**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	120	120	<20	25	<50	50	75	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
BH 303 - 0.5	**0.5**	**1051378**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
BH 304 - 0.5	**0.5**	**1051378**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH02 - 0.1	**0.1**	**938250**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH02 - 1.0	**1.0**	**938250**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH02 - 2.0	**2.0**	**938250**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH03 - 0.1	**0.1**	**938250**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH03 - 0.5	**0.5**	**938250**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH04 - 0.1	**0.1**	**938250**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH04 - 0.5	**0.5**	**938250**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH108 - 0.1	**0.1**	**958625**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	220	<100	220	<20	<20	160	89	249	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH108 - 0.3	**0.3**	**958625**	**Soil**																																			
BH108 - 0.5	**0.5**	**958625**	**Soil**																																			
BH109 - 0.1	**0.1**	**958625**	**Soil**																																			
BH109 - 0.3	**0.3**	**958625**	**Soil**																																			
BH109 - 0.5	**0.5**	**958625**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH110 - 0.1	**0.1**	**958625**	**Soil**																																			
BH111 - 0.1	**0.1**	**958625**	**Soil**																																			
BH112 - 0.1	**0.1**	**958625**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH113 - 0.1	**0.1**	**958625**	**Soil**																																			
BH13 - 0.1	**0.1**	**938250**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5							
BH18 - 0.1	**0.1**	**940583**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH19 - 0.1	**0.1**	**940583**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH19 - 0.5	**0.5**	**940583**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH20 - 0.1	**0.1**	**940583**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH20 - 0.5	**0.5**	**940583**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH20 - 1.0	**1.0**	**940583**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH22 - 0.1	**0.1**	**940583**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH22 - 0.5	**0.5**	**940583**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH22 - 1.5	**1.5**	**940583**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH23 - 0.1	**0.1**	**940583**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH23 - 0.5	**0.5**	**940583**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH23 - 1.5	**1.5**	**940583**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH24 - 0.1	**0.1**	**940583**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH24 - 0.5	**0.5**	**940583**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH24 - 1.0	**1.0**	**940583**	**Soil**																																			
BH24 - 1.5	**1.5**	**940583**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH25 - 0.1	**0.1**	**940583**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH25 - 0.5	**0.5**	**940583**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH25 - 1.5	**1.5**	**940583**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH402 - 1.0	**1.0**	**1079805**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH402 - 2.0	**2.0**	**1079805**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH403 - 0.1	**0.1**	**1079805**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH403 - 0.5	**0.5**	**1079805**	**Soil**																																			
BH403 - 3.0	**3.0**	**1079805**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH404 - 0.5	**0.5**	**1079805**	**Soil**																																			
BH404 - 2.0	**2.0**	**1079805**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
BH404 - 3.0	**3.0**	**1079805**	**Soil**																																			
BH405 - 0.5	**0.5**	**1079805**	**Soil**																																			
BH405 - 2.0	**2.0**	**1079805**	**Soil**																																			
BH405 - 3.0	**3.0**	**1079805**	**Soil**																																			
TP 301 - 0.2	**0.2**	**1051378**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	57	57	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
TP 301 - 1.0	**1.0**	**1051378**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
TP 302 - 0.5	**0.5**	**1051378**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
TP 303 - 0.2	**0.2**	**1051378**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
TP 303 - 1.0	**1.0**	**1051378**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
TP 304 - 1.0	**1.0**	**1051378**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
TP 305 - 0.5	**0.5**	**1051378**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
TP 306 - 0.2	**0.2**	**1051378**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
TP 306 - 1.0	**1.0**	**1051378**	**Soil**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05							
Statistics																																						
Number of Results				**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**							
Minimum Concentration				**<0.1**	**<0.1**	**<0.1**	**<0.5**	**<0.1**	**<0.2**	**<0.3**	**<20**	**<20**	**<50**	**<50**	**<100**	**<100**	**<100**	**<20**	**<20**	**<50**	**50**	**<50**	**<0.05**	**<0.05**	**<0.05**	**<0.05**	**<0.05**	**<0.05**	**<0.05**	**<0.05**	**<0.05**							
Maximum Concentration				**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**220**	**180**	**310**	**0**	**25**	**160**	**140**	**249**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**							
Average Concentration *				-	-	-	-	-	-	-	-	-	-	-	**195**	**146.666667**	**207.5**	-	**24**	**116.5**	**86.6**	**142.8**	-	-	-	-	-	-	-	-	-							

* A Non Detect Multiplier of 0.5 has been applied.

				Organochlorine Pesticides															Phenols												
				Endrin	Endrin ketone	Endrin aldehyde	Endosulfan sulphate	Chlordane	Hexachlorobenzene	Heptachlor	Heptachlor epoxide	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Methoxychlor	Toxaphene	Organochlorine pesticides EPAVic	Other organochlorine pesticides EPAVic	2-Chlorophenol	2,4-Dichlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,6-Dichlorophenol	4-chloro-3-methylphenol	Pentachlorophenol	4,6-Dinitro-2-methylphenol	Tetrachlorophenols	Cresol Total	4,6-Dinitro-o-cyclohexyl phenol	2,4-Dimethylphenol
				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	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5	0.1	0.1	0.5	0.5	1	1	0.5	1	1	5	10	0.5	20	0.5
Airport Regulations - Area of an airport generally								250		50																					
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil				100				530	80	50						2,500	160									660			25,000		
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																															
NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind																															
PFAS NEMP 2020 Ecological indirect exposure																															
PFAS NEMP 2020 Industrial/ commercial (HIL D)																															
Field ID	**Depth**	**Lab Report**	**Matrix Type**																												
BH 301 - 0.35	**0.4**	**1051378**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH 302 - 0.2	**0.2**	**1051378**	**Soil**	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<1	<20	<0.5
BH 303 - 0.2	**0.2**	**1051378**	**Soil**	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<1	<20	<0.5
BH 303 - 0.5	**0.5**	**1051378**	**Soil**	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<1	<20	<0.5
BH 304 - 0.5	**0.5**	**1051378**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH02 - 0.1	**0.1**	**938250**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH02 - 1.0	**1.0**	**938250**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH02 - 2.0	**2.0**	**938250**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH03 - 0.1	**0.1**	**938250**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH03 - 0.5	**0.5**	**938250**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH04 - 0.1	**0.1**	**938250**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH04 - 0.5	**0.5**	**938250**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH108 - 0.1	**0.1**	**958625**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH108 - 0.3	**0.3**	**958625**	**Soil**																												
BH108 - 0.5	**0.5**	**958625**	**Soil**																												
BH109 - 0.1	**0.1**	**958625**	**Soil**																												
BH109 - 0.3	**0.3**	**958625**	**Soil**																												
BH109 - 0.5	**0.5**	**958625**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH110 - 0.1	**0.1**	**958625**	**Soil**																												
BH111 - 0.1	**0.1**	**958625**	**Soil**																												
BH112 - 0.1	**0.1**	**958625**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH113 - 0.1	**0.1**	**958625**	**Soil**																												
BH13 - 0.1	**0.1**	**938250**	**Soil**	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<1	<20	<0.5
BH18 - 0.1	**0.1**	**940583**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH19 - 0.1	**0.1**	**940583**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH19 - 0.5	**0.5**	**940583**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH20 - 0.1	**0.1**	**940583**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH20 - 0.5	**0.5**	**940583**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH20 - 1.0	**1.0**	**940583**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH22 - 0.1	**0.1**	**940583**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH22 - 0.5	**0.5**	**940583**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH22 - 1.5	**1.5**	**940583**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH23 - 0.1	**0.1**	**940583**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH23 - 0.5	**0.5**	**940583**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH23 - 1.5	**1.5**	**940583**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH24 - 0.1	**0.1**	**940583**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH24 - 0.5	**0.5**	**940583**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH24 - 1.0	**1.0**	**940583**	**Soil**																												
BH24 - 1.5	**1.5**	**940583**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH25 - 0.1	**0.1**	**940583**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH25 - 0.5	**0.5**	**940583**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH25 - 1.5	**1.5**	**940583**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH402 - 1.0	**1.0**	**1079805**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH402 - 2.0	**2.0**	**1079805**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH403 - 0.1	**0.1**	**1079805**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH403 - 0.5	**0.5**	**1079805**	**Soil**																												
BH403 - 3.0	**3.0**	**1079805**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH404 - 0.5	**0.5**	**1079805**	**Soil**																												
BH404 - 2.0	**2.0**	**1079805**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
BH404 - 3.0	**3.0**	**1079805**	**Soil**																												
BH405 - 0.5	**0.5**	**1079805**	**Soil**																												
BH405 - 2.0	**2.0**	**1079805**	**Soil**																												
BH405 - 3.0	**3.0**	**1079805**	**Soil**																												
TP 301 - 0.2	**0.2**	**1051378**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
TP 301 - 1.0	**1.0**	**1051378**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
TP 302 - 0.5	**0.5**	**1051378**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
TP 303 - 0.2	**0.2**	**1051378**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
TP 303 - 1.0	**1.0**	**1051378**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
TP 304 - 1.0	**1.0**	**1051378**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
TP 305 - 0.5	**0.5**	**1051378**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
TP 306 - 0.2	**0.2**	**1051378**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
TP 306 - 1.0	**1.0**	**1051378**	**Soil**	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5	<20	<0.5
Statistics																															
Number of Results				**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**
Minimum Concentration				**<0.05**	**<0.05**	**<0.05**	**<0.05**	**<0.1**	**<0.05**	**<0.05**	**<0.05**	**<0.05**	**<0.05**	**<0.05**	**<0.05**	**<0.05**	**<0.5**	**<0.1**	**<0.1**	**<0.5**	**<0.5**	**<1**	**<1**	**<0.5**	**<1**	**<1**	**<5**	**<10**	**<0.5**	**<20**	**<0.5**
Maximum Concentration				**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Average Concentration *				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* A Non Detect Multiplier of 0.5 has been applied.

												PFOS/PFOA						PCBs								
				2-Methylphenol	2-Nitrophenol	2,4-Dinitrophenol	3&4-Methylphenol (m&p-cresol)	4-Nitrophenol	Dinoseb	Phenol	Phenols (Total Halogenated)	Phenols (Total Non Halogenated)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	Perfluorooctanoic acid (PFOA)	Perfluorooctanesulfonic acid (PFOS)	Perfluorohexane sulfonic acid (PFHxS)	Sum of PFHxS and PFOS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1221	Arochlor 1260	Arochlor 1016	PCBs (Sum of total)	Moisture Content (dried @ 103°C)
				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	mg/kg	mg/kg	mg/kg	mg/kg	%
EQL				0.2	1	5	0.4	5	20	0.5	1	20	0.01	0.005	0.005	0.005	0.005	0.005	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1
Airport Regulations - Area of an airport generally										42,500																50	
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil										240,000																7	
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand																											
NEPM 2013 Table 1B(5) Generic EIL - Comm/Ind																											
PFAS NEMP 2020 Ecological indirect exposure															0.14												
PFAS NEMP 2020 Industrial/ commercial (HIL D)														50	20	20	20										
Field ID	**Depth**	**Lab Report**	**Matrix Type**																								
BH 301 - 0.35	**0.4**	**1051378**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20	<0.01	<0.005	0.18	<0.005	0.18	0.18	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	15
BH 302 - 0.2	**0.2**	**1051378**	**Soil**	<0.5	<1	<5	<1	<5	<20	<0.5	<1	<20	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<1	<1	<1	<1	<1	<1	<1	13
BH 303 - 0.2	**0.2**	**1051378**	**Soil**	<0.5	<1	<5	<1	<5	<20	<0.5	<1	<20	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<1	<1	<1	<1	<1	<1	<1	13
BH 303 - 0.5	**0.5**	**1051378**	**Soil**	<0.5	<1	<5	<1	<5	<20	<0.5	<1	<20	<0.01	<0.005	0.069	0.012	0.081	0.081	<1	<1	<1	<1	<1	<1	<1	<1	13
BH 304 - 0.5	**0.5**	**1051378**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20	<0.01	<0.005	0.029	<0.005	0.029	0.029	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	14
BH02 - 0.1	**0.1**	**938250**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20	<0.01	<0.005	0.0054	<0.005	0.0054	0.0054	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	13
BH02 - 1.0	**1.0**	**938250**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20							<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20
BH02 - 2.0	**2.0**	**938250**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20							<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	11
BH03 - 0.1	**0.1**	**938250**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20	<0.01	<0.005	0.011	<0.005	0.011	0.011	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	16
BH03 - 0.5	**0.5**	**938250**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20							<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	19
BH04 - 0.1	**0.1**	**938250**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20							<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	14
BH04 - 0.5	**0.5**	**938250**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	13
BH108 - 0.1	**0.1**	**958625**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	16
BH108 - 0.3	**0.3**	**958625**	**Soil**										<0.01	<0.005	0.0072	<0.005	0.0072	0.0072									10
BH108 - 0.5	**0.5**	**958625**	**Soil**										<0.01	<0.005	<0.005	<0.005	<0.005	<0.005									11
BH109 - 0.1	**0.1**	**958625**	**Soil**										<0.01	<0.005	<0.005	<0.005	<0.005	<0.005									11
BH109 - 0.3	**0.3**	**958625**	**Soil**										<0.01	<0.005	<0.005	<0.005	<0.005	<0.005									11
BH109 - 0.5	**0.5**	**958625**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	13
BH110 - 0.1	**0.1**	**958625**	**Soil**										<0.01	<0.005	<0.005	<0.005	<0.005	<0.005									11
BH111 - 0.1	**0.1**	**958625**	**Soil**										<0.01	<0.005	0.016	<0.005	0.016	0.016									5.9
BH112 - 0.1	**0.1**	**958625**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20	<0.01	<0.005	0.033	<0.005	0.033	0.033	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	12
BH113 - 0.1	**0.1**	**958625**	**Soil**										<0.01	<0.005	0.015	<0.005	0.015	0.015									10
BH13 - 0.1	**0.1**	**938250**	**Soil**	<0.5	<1	<5	<1	<5	<20	<0.5	<1	<20	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<1	<1	<1	<1	<1	<1	<1	3.6
BH18 - 0.1	**0.1**	**940583**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20	<0.01	<0.005	0.0073	<0.005	0.0073	0.0073	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	15
BH19 - 0.1	**0.1**	**940583**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20	<0.01	<0.005	0.0073	<0.005	0.0073	0.0073	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	16
BH19 - 0.5	**0.5**	**940583**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20							<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	21
BH20 - 0.1	**0.1**	**940583**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20							<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	16
BH20 - 0.5	**0.5**	**940583**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20
BH20 - 1.0	**1.0**	**940583**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20							<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	17
BH22 - 0.1	**0.1**	**940583**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20							<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	17
BH22 - 0.5	**0.5**	**940583**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	16
BH22 - 1.5	**1.5**	**940583**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20							<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	17
BH23 - 0.1	**0.1**	**940583**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20							<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	16
BH23 - 0.5	**0.5**	**940583**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	19
BH23 - 1.5	**1.5**	**940583**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20							<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	18
BH24 - 0.1	**0.1**	**940583**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20	<0.01	<0.005	0.011	<0.005	0.011	0.011	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.8
BH24 - 0.5	**0.5**	**940583**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20							<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	15
BH24 - 1.0	**1.0**	**940583**	**Soil**										<0.01	<0.005	<0.005	<0.005	<0.005	<0.005									22
BH24 - 1.5	**1.5**	**940583**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20							<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	15
BH25 - 0.1	**0.1**	**940583**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20							<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	15
BH25 - 0.5	**0.5**	**940583**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	16
BH25 - 1.5	**1.5**	**940583**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20							<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	17
BH402 - 1.0	**1.0**	**1079805**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20	<0.01	<0.005	0.0089	0.042	0.0509	0.0509	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	17
BH402 - 2.0	**2.0**	**1079805**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	13
BH403 - 0.1	**0.1**	**1079805**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20							<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	16
BH403 - 0.5	**0.5**	**1079805**	**Soil**										<0.01	0.014	0.015	0.34	0.355	0.369									23
BH403 - 3.0	**3.0**	**1079805**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20	<0.01	<0.005	0.12	0.018	0.138	0.138	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	9.7
BH404 - 0.5	**0.5**	**1079805**	**Soil**										<0.01	<0.005	0.048	<0.005	0.048	0.048									16
BH404 - 2.0	**2.0**	**1079805**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20							<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	14
BH404 - 3.0	**3.0**	**1079805**	**Soil**										<0.01	<0.005	<0.005	<0.005	<0.005	<0.005									11
BH405 - 0.5	**0.5**	**1079805**	**Soil**										<0.01	<0.005	0.042	<0.005	0.042	0.042									16
BH405 - 2.0	**2.0**	**1079805**	**Soil**										<0.01	<0.005	<0.005	<0.005	<0.005	<0.005									17
BH405 - 3.0	**3.0**	**1079805**	**Soil**										<0.01	<0.005	<0.005	<0.005	<0.005	<0.005									12
TP 301 - 0.2	**0.2**	**1051378**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20	<0.01	<0.005	0.051	0.0057	0.0567	0.0567	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	15
TP 301 - 1.0	**1.0**	**1051378**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	11
TP 302 - 0.5	**0.5**	**1051378**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20	<0.01	<0.005	0.04	0.006	0.046	0.046	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	14
TP 303 - 0.2	**0.2**	**1051378**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20	<0.01	<0.005	0.013	<0.005	0.013	0.013	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	14
TP 303 - 1.0	**1.0**	**1051378**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	18
TP 304 - 1.0	**1.0**	**1051378**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20	<0.01	<0.005	0.019	<0.005	0.019	0.019	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	16
TP 305 - 0.5	**0.5**	**1051378**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20	<0.01	<0.005	0.066	<0.005	0.066	0.066	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	16
TP 306 - 0.2	**0.2**	**1051378**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20	<0.01	<0.005	0.03	<0.005	0.03	0.03	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	14
TP 306 - 1.0	**1.0**	**1051378**	**Soil**	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20	<0.01	<0.005	1.3	0.011	1.311	1.311	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	18
Statistics																											
Number of Results				**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**45**	**45**	**45**	**45**	**45**	**45**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**48**	**62**
Minimum Concentration				**<0.2**	**<1**	**<5**	**<0.4**	**<5**	**<20**	**<0.5**	**<1**	**<20**	**<0.01**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.005**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**<0.1**	**2.8**
Maximum Concentration				**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.014**	**1.3**	**0.34**	**1.311**	**1.311**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**23**
Average Concentration *				-	-	-	-	-	-	-	-	-	-	**0.014**	**0.0893375**	**0.0621**	**0.10745**	**0.10803333**	-	-	-	-	-	-	-	-	**14.516129**

* A Non Detect Multiplier of 0.5 has been applied.

agon ENVIRONMENTAL

Table 2 - RPDs

Capital Airport Group

				Metals																									
				Arsenic	Cadmium	Copper	Chromium (III+VI)	Lead	Mercury	Nickel	Zinc	Acenaphthene	Acenaphthylene	Anthracene	Benz[a]anthracene	Benzo(a)pyrene TEQ calc (Zero)	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a) pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene
				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	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				2	0.4	1	1	1	0.1	1	1	0.1	0.1	0.1	0.1	0.5	0.5	0.5	0.05	0.5	0.1	0.5	0.1	0.1	0.1	0.1	0.1	0.1
Field ID	**Lab Report Number**	**Matrix Type**	**Date**																										
BH402 - 1.0	**1079805**	**Soil**		7.4	<0.4	26	77	22	<0.1	19	38	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QC402	**1079805**	**Soil**		4.9	<0.4	21	61	14	<0.1	16	33	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD				41	0	21	23	44	0	17	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BH404 - 3.0	**1079805**	**Soil**																											
QC403	**347250**	**Soil**	**15 Mar 2024**	<4	<0.4	17	84	12	<0.1	19	47	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.05		<0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
RPD																													
BH01 - 0.5	**938250**	**Soil**	**01 Nov 2022**	5.9	<0.4	20	64	33	<0.1	18	24	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QC01	**938250**	**Soil**	**01 Nov 2022**	7.0	<0.4	19	90	29	<0.1	16	27	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD				17	0	5	34	13	0	12	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BH01 - 1.5	**938250**	**Soil**	**01 Nov 2022**	6.2	<0.4	23	72	14	<0.1	20	34	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QC02	**938250**	**Soil**	**01 Nov 2022**	6.2	<0.4	22	97	20	<0.1	20	38	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD				0	0	4	30	35	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BH03 - 0.1	**938250**	**Soil**	**01 Nov 2022**	3.6	<0.4	11	35	25	<0.1	13	34	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	1.0	<0.5	<0.5	<0.5
QC03	**938250**	**Soil**	**01 Nov 2022**	3.8	<0.4	10	40	19	<0.1	11	25	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.7	<0.5	0.5	<0.5	0.5	<0.5	0.9	<0.5	<0.5	<0.5
RPD				5	0	10	13	27	0	17	31	0	0	0	0	0	0	15	0	0	0	0	0	0	11	0	0	0
BH05 - 1.5	**938250**	**Soil**	**01 Nov 2022**	4.8	<0.4	19	38	13	<0.1	19	28	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QC04	**938250**	**Soil**	**01 Nov 2022**	3.7	<0.4	13	37	12	<0.1	12	29	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD				26	0	38	3	8	0	45	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BH18 - 0.1	**940583**	**Soil**	**07 Nov 2022**	3.0	<0.4	13	51	19	<0.1	8.5	30	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QC10	**940583**	**Soil**	**07 Nov 2022**	2.5	<0.4	9.2	32	33	<0.1	7.9	51	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD				18	0	34	46	54	0	7	**52**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BH101 - 0.1	**958625**	**Soil**	**25 Jan 2023**	3.3	<0.4	18	43	33	<0.1	8.4	120	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QC201	**ES2303331**	**Soil**	**25 Jan 2023**									<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD												0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BH104 - 0.5	**958625**	**Soil**	**25 Jan 2023**	6.7	<0.4	18	61	21	<0.1	11	27	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QC202	**958625**	**Soil**	**25 Jan 2023**	5.6	<0.4	18	58	23	<0.1	19	36	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD				18	0	0	5	9	0	53	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BH106 - 0.5	**958625**	**Soil**	**25 Jan 2023**	3.7	<0.4	9.9	53	13	<0.1	6.9	18	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QC203	**958625**	**Soil**	**25 Jan 2023**	4.7	<0.4	10	66	15	<0.1	7.3	18	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD				24	0	1	22	14	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BH108 - 0.3	**958625**	**Soil**	**25 Jan 2023**																										
QC204	**958625**	**Soil**	**25 Jan 2023**																										
RPD																													
TP 301 - 0.2	**1051378**	**Soil**	**05 Dec 2023**	3.7	<0.4	9.9	23	22	<0.1	9.7	51	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QC 301	**1051378**	**Soil**	**05 Dec 2023**	5.1	<0.4	14	25	24	<0.1	10	56	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD				32	0	34	8	9	0	3	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BH401 - 1.0	**1079805**	**Soil**	**15 Mar 2024**	4.7	<0.4	24	110	9.1	<0.1	24	45	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QC401	**1079805**	**Soil**		4.1	<0.4	21	100	9.0	<0.1	22	45	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RPD				14	0	13	10	1	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

***RPDs have only been considered where a concentration is greater than 1 times the EQL.**

****Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 81 (1 - 10 x EQL); 50 (10 - 30 x EQL); 30 (> 30 x EQL))**

*****Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory**

							BTEX							TRH							TPH						
				Phenanthrene	Pyrene	PAHs (Sum of total)	Benzene	Ethylbenzene	Toluene	Total BTEX	Naphthalene (VOC)	Xylene (o)	Xylene (m & p)	Xylene Total	C6-C10	C6-C10 (F1 minus BTEX)	C10-C16	C10-C16 (F2 minus Naphthalene)	C16-C34	C34-C40	C10-C40 (Sum of total)	C6-C9	C10-C14	C15-C28	C29-C36	+C10-C36 (Sum of total)	Aldrin	Dieldrin
				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	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.1	0.1	0.5	0.1	0.1	0.1	0.2	0.5	0.1	0.2	0.3	10	10	50	50	100	100	50	10	20	50	50	50	0.05	0.05
Field ID	**Lab Report Number**	**Matrix Type**	**Date**																									
BH402 - 1.0	**1079805**	**Soil**		<0.5	<0.5	<0.5	<0.1	<0.1	<0.1		<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05
QC402	**1079805**	**Soil**		<0.5	<0.5	<0.5	<0.1	<0.1	<0.1		<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05
RPD				0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BH404 - 3.0	**1079805**	**Soil**																										
QC403	**347250**	**Soil**	**15 Mar 2024**	<0.1	<0.1		<0.2	<1	<0.5		<1	<1	<2	<1	<25	<25	<50	<50	<100	<100	<50	<25	<50	<100	<100	<50	<0.1	<0.1
RPD																												
BH01 - 0.5	**938250**	**Soil**	**01 Nov 2022**	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1		<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05
QC01	**938250**	**Soil**	**01 Nov 2022**	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1		<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05
RPD				0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BH01 - 1.5	**938250**	**Soil**	**01 Nov 2022**	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1		<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05
QC02	**938250**	**Soil**	**01 Nov 2022**	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1		<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05
RPD				0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BH03 - 0.1	**938250**	**Soil**	**01 Nov 2022**	<0.5	1.0	2.0	<0.1	<0.1	<0.1		<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05
QC03	**938250**	**Soil**	**01 Nov 2022**	<0.5	1.0	2.9	<0.1	<0.1	<0.1		<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05
RPD				0	0	37	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BH05 - 1.5	**938250**	**Soil**	**01 Nov 2022**	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1		<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05
QC04	**938250**	**Soil**	**01 Nov 2022**	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1		<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05
RPD				0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BH18 - 0.1	**940583**	**Soil**	**07 Nov 2022**	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1		<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05
QC10	**940583**	**Soil**	**07 Nov 2022**	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1		<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05
RPD				0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BH101 - 0.1	**958625**	**Soil**	**25 Jan 2023**	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1		<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05
QC201	**ES2303331**	**Soil**	**25 Jan 2023**	<0.5	<0.5	<0.5	<0.2	<0.5	<0.5	<0.2	<1	<0.5	<0.5	<0.5	<10	<10	<50	<50	<100	<100	<50	<10	<50	<100	<100	<50	<0.05	<0.05
RPD				0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BH104 - 0.5	**958625**	**Soil**	**25 Jan 2023**	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1		<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05
QC202	**958625**	**Soil**	**25 Jan 2023**	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1		<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05
RPD				0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BH106 - 0.5	**958625**	**Soil**	**25 Jan 2023**	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1		<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05
QC203	**958625**	**Soil**	**25 Jan 2023**	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1		<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05
RPD				0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BH108 - 0.3	**958625**	**Soil**	**25 Jan 2023**																									
QC204	**958625**	**Soil**	**25 Jan 2023**																									
RPD																												
TP 301 - 0.2	**1051378**	**Soil**	**05 Dec 2023**	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1		<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	57	57	<0.05	<0.05
QC 301	**1051378**	**Soil**	**05 Dec 2023**	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1		<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	120	120	<20	31	<50	75	106	<0.5	<0.5
RPD				0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	18	18	0	43	0	27	60	0	0
BH401 - 1.0	**1079805**	**Soil**	**15 Mar 2024**	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1		<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05
QC401	**1079805**	**Soil**		<0.5	<0.5	<0.5	<0.1	<0.1	<0.1		<0.5	<0.1	<0.2	<0.3	<20	<20	<50	<50	<100	<100	<100	<20	<20	<50	<50	<50	<0.05	<0.05
RPD				0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

***RPDs have only been considered where a concentration is greater than 1 times the EQL.**

****Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier ran**

*****Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any**

				Organochlorine Pesticides																							
				Aldrin + Dieldrin	DDD	DDT	4,4-DDE	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endrin	Endrin ketone	Endrin aldehyde	Endosulfan sulphate	chlordane	Endosulfan	Chlordane (cis)	Chlordane (trans)	Hexachlorobenzene	Heptachlor	Heptachlor epoxide	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Methoxychlor	Toxaphene	Organochlorine pesticides EPAVic
				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	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5	0.1
Field ID	**Lab Report Number**	**Matrix Type**	**Date**																									
BH402 - 1.0	**1079805**	**Soil**		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1
QC402	**1079805**	**Soil**		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1
RPD				0	0	0	0	0	0	0	0	0	0	0	0				0	0	0	0	0	0	0	0	0	0
BH404 - 3.0	**1079805**	**Soil**																										
QC403	**347250**	**Soil**	**15 Mar 2024**		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1	<0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
RPD																												
BH01 - 0.5	**938250**	**Soil**	**01 Nov 2022**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1
QC01	**938250**	**Soil**	**01 Nov 2022**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1
RPD				0	0	0	0	0	0	0	0	0	0	0	0				0	0	0	0	0	0	0	0	0	0
BH01 - 1.5	**938250**	**Soil**	**01 Nov 2022**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1
QC02	**938250**	**Soil**	**01 Nov 2022**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1
RPD				0	0	0	0	0	0	0	0	0	0	0	0				0	0	0	0	0	0	0	0	0	0
BH03 - 0.1	**938250**	**Soil**	**01 Nov 2022**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1
QC03	**938250**	**Soil**	**01 Nov 2022**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1
RPD				0	0	0	0	0	0	0	0	0	0	0	0				0	0	0	0	0	0	0	0	0	0
BH05 - 1.5	**938250**	**Soil**	**01 Nov 2022**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1
QC04	**938250**	**Soil**	**01 Nov 2022**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1
RPD				0	0	0	0	0	0	0	0	0	0	0	0				0	0	0	0	0	0	0	0	0	0
BH18 - 0.1	**940583**	**Soil**	**07 Nov 2022**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1
QC10	**940583**	**Soil**	**07 Nov 2022**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1
RPD				0	0	0	0	0	0	0	0	0	0	0	0				0	0	0	0	0	0	0	0	0	0
BH101 - 0.1	**958625**	**Soil**	**25 Jan 2023**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1
QC201	**ES2303331**	**Soil**	**25 Jan 2023**	<0.05	<0.05	<0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2		
RPD				0	0	0	0	0	0	0	0	0	0	0	0				0	0	0	0	0	0	0	0	0	
BH104 - 0.5	**958625**	**Soil**	**25 Jan 2023**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1
QC202	**958625**	**Soil**	**25 Jan 2023**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1
RPD				0	0	0	0	0	0	0	0	0	0	0	0				0	0	0	0	0	0	0	0	0	0
BH106 - 0.5	**958625**	**Soil**	**25 Jan 2023**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1
QC203	**958625**	**Soil**	**25 Jan 2023**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1
RPD				0	0	0	0	0	0	0	0	0	0	0	0				0	0	0	0	0	0	0	0	0	0
BH108 - 0.3	**958625**	**Soil**	**25 Jan 2023**																									
QC204	**958625**	**Soil**	**25 Jan 2023**																									
RPD																												
TP 301 - 0.2	**1051378**	**Soil**	**05 Dec 2023**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1
QC 301	**1051378**	**Soil**	**05 Dec 2023**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1
RPD				0	0	0	0	0	0	0	0	0	0	0	0				0	0	0	0	0	0	0	0	0	0
BH401 - 1.0	**1079805**	**Soil**	**15 Mar 2024**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1
QC401	**1079805**	**Soil**		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1
RPD				0	0	0	0	0	0	0	0	0	0	0	0				0	0	0	0	0	0	0	0	0	0

***RPDs have only been considered where a concentration is greater than 1 times the EQL.**
****Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier ran**
*****Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any**

					Phenols																									
				Other organochlorine pesticides EPAVic	2-Chlorophenol	2,4-Dichlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,6-Dichlorophenol	4-chloro-3-methylphenol	Pentachlorophenol	4,6-Dinitro-2-methylphenol	Tetrachlorophenols	Cresol Total	Phenolics Total	4,6-Dinitro-o-cyclohexyl phenol	2,4-Dimethylphenol	2-Methylphenol	2-Nitrophenol	2,4-Dinitrophenol	3&4-Methylphenol (m&p-cresol)	4-Nitrophenol	Dinoseb	Phenol	Phenols (Total Halogenated)	Phenols (Total Non Halogenated)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)
				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	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.1	0.5	0.5	0.5	0.5	0.5	0.5	1	5	10	0.5	5	20	0.5	0.2	0.5	5	0.4	5	20	0.5	1	20	0.0005	0.0002
Field ID	**Lab Report Number**	**Matrix Type**	**Date**																											
BH402 - 1.0	**1079805**	**Soil**		<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5		<20	<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		
QC402	**1079805**	**Soil**		<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5		<20	<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		
RPD				0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0		
BH404 - 3.0	**1079805**	**Soil**																										
QC403	**347250**	**Soil**	**15 Mar 2024**												<5													<0.0002
RPD																												
BH01 - 0.5	**938250**	**Soil**	**01 Nov 2022**	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5		<20	<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		
QC01	**938250**	**Soil**	**01 Nov 2022**	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5		<20	<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		
RPD				0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0		
BH01 - 1.5	**938250**	**Soil**	**01 Nov 2022**	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5		<20	<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		
QC02	**938250**	**Soil**	**01 Nov 2022**	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5		<20	<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		
RPD				0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0		
BH03 - 0.1	**938250**	**Soil**	**01 Nov 2022**	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5		<20	<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		
QC03	**938250**	**Soil**	**01 Nov 2022**	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5		<20	<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		
RPD				0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0		
BH05 - 1.5	**938250**	**Soil**	**01 Nov 2022**	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5		<20	<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		
QC04	**938250**	**Soil**	**01 Nov 2022**	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5		<20	<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		
RPD				0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0		
BH18 - 0.1	**940583**	**Soil**	**07 Nov 2022**	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5		<20	<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		
QC10	**940583**	**Soil**	**07 Nov 2022**	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5		<20	<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		
RPD				0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0		
BH101 - 0.1	**958625**	**Soil**	**25 Jan 2023**	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5		<20	<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		
QC201	**ES2303331**	**Soil**	**25 Jan 2023**		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2						<0.5	<0.5	<0.5		<1			<0.5			<0.0005	<0.0005
RPD					0	0	0	0	0	0	0						0	0	0		0			0				
BH104 - 0.5	**958625**	**Soil**	**25 Jan 2023**	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5		<20	<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		
QC202	**958625**	**Soil**	**25 Jan 2023**	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5		<20	<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		
RPD				0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0		
BH106 - 0.5	**958625**	**Soil**	**25 Jan 2023**	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5		<20	<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		
QC203	**958625**	**Soil**	**25 Jan 2023**	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5		<20	<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		
RPD				0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0		
BH108 - 0.3	**958625**	**Soil**	**25 Jan 2023**																									
QC204	**958625**	**Soil**	**25 Jan 2023**																									
RPD																												
TP 301 - 0.2	**1051378**	**Soil**	**05 Dec 2023**	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5		<20	<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		
QC 301	**1051378**	**Soil**	**05 Dec 2023**	<1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<1		<20	<0.5	<0.5	<1	<5	<1	<5	<20	<0.5	<1	<20		
RPD				0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0		
BH401 - 1.0	**1079805**	**Soil**	**15 Mar 2024**	<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5		<20	<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		
QC401	**1079805**	**Soil**		<0.1	<0.5	<0.5	<1	<1	<0.5	<1	<1	<5	<10	<0.5		<20	<0.5	<0.2	<1	<5	<0.4	<5	<20	<0.5	<1	<20		
RPD				0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0		

***RPDs have only been considered where a concentration is greater than 1 times the EQL.**
****Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier ran**
*****Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any**

				PFOS/PFOA												PCBs							
				6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	Perfluorobutanoic acid (PFBA)	Perfluorobutane sulfonic acid (PFBS)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanoic acid (PFHxA)	Perfluorooctanoic acid (PFOA)	Perfluoropentanoic acid (PFPeA)	Perfluorooctanesulfonic acid (PFOS)	Perfluorohexane sulfonic acid (PFHxS)	Sum of PFHxS and PFOS	Sum of PFAS	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1221	Arochlor 1260	Arochlor 1016	PCBs (Sum of total)
				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	mg/kg
EQL				0.0001	0.0005	0.001	0.0002	0.0002	0.0002	0.0001	0.0002	0.0001	0.0001	0.0001	0.0001	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Field ID	**Lab Report Number**	**Matrix Type**	**Date**																				
BH402 - 1.0	**1079805**	**Soil**		<0.01						<0.005		0.0089	0.042	0.0509		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
QC402	**1079805**	**Soil**		<0.01						<0.005		0.0066	0.02	0.0266		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
RPD				0						0		30	71	**63**		0	0	0	0	0	0	0	0
BH404 - 3.0	**1079805**	**Soil**		<0.01						<0.005		<0.005	<0.005	<0.005									
QC403	**347250**	**Soil**	**15 Mar 2024**	<0.0001						0.0001		0.0044	0.0015	0.0059	0.0060	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
RPD				0						0		0	0	17									
BH01 - 0.5	**938250**	**Soil**	**01 Nov 2022**	<0.01						<0.005		<0.005	<0.005	<0.005		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
QC01	**938250**	**Soil**	**01 Nov 2022**	<0.01						<0.005		<0.005	<0.005	<0.005		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
RPD				0						0		0	0	0		0	0	0	0	0	0	0	0
BH01 - 1.5	**938250**	**Soil**	**01 Nov 2022**													<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
QC02	**938250**	**Soil**	**01 Nov 2022**													<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
RPD																0	0	0	0	0	0	0	0
BH03 - 0.1	**938250**	**Soil**	**01 Nov 2022**	<0.01						<0.005		0.011	<0.005	0.011		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
QC03	**938250**	**Soil**	**01 Nov 2022**	<0.01						<0.005		0.011	<0.005	0.011		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
RPD				0						0		0	0	0		0	0	0	0	0	0	0	0
BH05 - 1.5	**938250**	**Soil**	**01 Nov 2022**	<0.01						<0.005		<0.005	<0.005	<0.005		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
QC04	**938250**	**Soil**	**01 Nov 2022**													<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
RPD																0	0	0	0	0	0	0	0
BH18 - 0.1	**940583**	**Soil**	**07 Nov 2022**	<0.01						<0.005		0.0073	<0.005	0.0073		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
QC10	**940583**	**Soil**	**07 Nov 2022**	<0.01						<0.005		0.0056	<0.005	0.0056		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
RPD				0						0		26	0	26		0	0	0	0	0	0	0	0
BH101 - 0.1	**958625**	**Soil**	**25 Jan 2023**	<0.01						<0.005		0.0056	<0.005	0.0056		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
QC201	**ES2303331**	**Soil**	**25 Jan 2023**	<0.0005	<0.0005	<0.001	0.0004	<0.0002	0.0011	0.0003	0.0004	0.0068	0.0036	0.0104									<0.1
RPD				0						0		19	0	**60**									0
BH104 - 0.5	**958625**	**Soil**	**25 Jan 2023**	<0.01						<0.005		<0.005	<0.005	<0.005		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
QC202	**958625**	**Soil**	**25 Jan 2023**	<0.01						<0.005		<0.005	<0.005	<0.005		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
RPD				0						0		0	0	0		0	0	0	0	0	0	0	0
BH106 - 0.5	**958625**	**Soil**	**25 Jan 2023**	<0.01						<0.005		<0.005	<0.005	<0.005		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
QC203	**958625**	**Soil**	**25 Jan 2023**													<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
RPD																0	0	0	0	0	0	0	0
BH108 - 0.3	**958625**	**Soil**	**25 Jan 2023**	<0.01						<0.005		0.0072	<0.005	0.0072									
QC204	**958625**	**Soil**	**25 Jan 2023**	<0.01						<0.005		0.0051	<0.005	0.0051									
RPD				0						0		34	0	34									
TP 301 - 0.2	**1051378**	**Soil**	**05 Dec 2023**	<0.01						<0.005		0.051	0.0057	0.0567		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
QC 301	**1051378**	**Soil**	**05 Dec 2023**	<0.01						<0.005		0.07	0.0082	0.0782		<1	<1	<1	<1	<1	<1	<1	<1
RPD				0						0		31	36	32		0	0	0	0	0	0	0	0
BH401 - 1.0	**1079805**	**Soil**	**15 Mar 2024**	<0.01						<0.005		<0.005	<0.005	<0.005		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
QC401	**1079805**	**Soil**		<0.01						<0.005		<0.005	<0.005	<0.005		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
RPD				0						0		0	0	0		0	0	0	0	0	0	0	0

***RPDs have only been considered where a concentration is greater than 1 times the EQL.**
****Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier ran**
*****Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any**

Rinsate

				PFOS/PFOA						
				6:2 Fluorotelomer sulfonic acid (6:2 FTS)	Perfluorooctanoic acid (PFOA)	Perfluorooctanesulfonic acid (PFOS)	Perfluorohexane sulfonic acid (PFHxS)	Sum of PFHxS and PFOS	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
				mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
EQL				0.00005	0.01	0.01	0.01	0.01	0.01	0.01
Sample ID	**Lab Report**	**Matrix Type**	**Date**							
RB01	**958625**	**Water**	**25 Jan 2023**	<0.00005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Rinsate 5.12.23	**1051378**	**Water**	**05 Dec 2023**	<0.00005	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Trip Blanks

				BTEX							TRH		TPH
				Benzene	Ethylbenzene	Toluene	Naphthalene (VOC)	Xylene (o)	Xylene (m & p)	Xylene Total	C6-C10	C6-C10 (F1 minus BTEX)	C6-C9
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.1	0.1	0.1	0.5	0.1	0.2	0.3	20	20	20
Sample ID	**Lab Report**	**Matrix Type**	**Date**										
SOIL TRIP BLANK	**1079805**	**Soil**	**18/03/2024**	<0.1	<0.1	<0.1	<0.5	<0.1	<0.2	<0.3	<20	<20	<20

Trip Spikes

Lab Report Number	Matrix Type	Analysis Batch	Chem Name	Spike Reco
1079805	SOIL TRIP SPIKE	2024-03-27	Ethylbenzene	110
1079805	SOIL TRIP SPIKE	2024-03-27	Xylene (m & p)	110
1079805	SOIL TRIP SPIKE	2024-03-27	Toluene	110
1079805	SOIL TRIP SPIKE	2024-03-27	Xylene Total	110
1079805	SOIL TRIP SPIKE	2024-03-27	Benzene	100
1079805	SOIL TRIP SPIKE	2024-03-27	Naphthalene	93
1079805	SOIL TRIP SPIKE	2024-03-27	Xylene (o)	110
1079805	SOIL TRIP SPIKE	2024-03-27	C6-C10	110
1079805	SOIL TRIP SPIKE	2024-03-27	C6-C9	110

Trip Spike Recoveries. Lab LCL and UCL adopted for non-compliance.

APPENDIX D: LABORATORY CERTIFICATES

CHAIN OF COSTODY RECORD

Sydney Laboratory / Brisbane Laboratory / Perth Laboratory / Melbourne Laboratory

Company	Agon	Project №	-	Project Manager	JO	Sampler(s)	KL
Address	68 Northbourne Ave, Canberra ACT 2600	Project Name	Fairbairn	EDD Format (ESdat, EQuIS, Custom)	ESDAT	Handed over by	KL
						Email for Invoice	john.o'brien@agonenviro.com.au; finance@agonenviro.com.au;
Contact Name	John O'Brien					Email for Results	john.o'brien@agonenviro.com.au
Phone №	0431582323						
Special Directions							
Purchase Order							
Quote ID №	Quotation # 190129AEGA						

Analyses (Note: Where metals are requested, please specify "Total" or "Filtered"; SUITE codes must be used to attract SUITE pricing)

Containers: Jar (Glass), Jar (HDPE), ENM Bag, Bag Acid Sulphate Soil, Small plastic bottle, Vial (headspace), Plastic bottle (inorganics), Amber bottle

Turnaround Time (TAT) Requirements (Default will be 5 days if not ticked): Overnight (9am)* / 1 Day* / 2 Day* / 3 Day* / 5 Day / Other ( ) — * Surcharges apply

№	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))		HOLD	Jar (Glass)	Jar (HDPE)	Sample Comments / Dangerous Goods Hazard Warning
1	BH01 - 0.1	31/10/22	S		X	1	1	
2	BH01 - 0.5	31/10/22	S		X	1	1	
3	BH01 - 1.0	31/10/22	S		X	1	1	
4	BH01 - 1.5	31/10/22	S		X	1	1	
5	BH01 - 2.0	31/10/22	S		X	1	1	
6	BH02 - 0.1	31/10/22	S		X	1	1	
7	BH02 - 0.5	31/10/22	S		X	1	1	
8	BH01 - 1.0	31/10/22	S		X	1	1	
9	BH02 - 1.5	31/10/22	S		X	1	1	
10	BH02 - 2.0	31/10/22	S		X	1	1	
11	BH03 - 0.1	31/10/22	S		X	1	1	
12	BH03 - 0.5	31/10/22	S		X	1	1	
13	BH03 - 1.0	31/10/22	S		X	1	1	
14	BH03 - 1.5	31/10/22	S		X	1	1	
15	BH03 - 2.0	31/10/22	S		X	1	1	
16	BH04 - 0.1	31/10/22	S		X	1	1	
17	BH04 - 0.5	31/10/22	S		X	1	1	
18	BH04 - 1.0	31/10/22	S		X	1	1	
19	BH04 - 1.5	31/10/22	S		X	1	1	
20	BH04 - 2.0	31/10/22	S		X	1	1	
21	BH05 - 0.1	31/10/22	S		X	1	1	
22	BH05 - 0.5	31/10/22	S		X	1	1	
23	BH05 - 1.0	31/10/22	S		X	1	1	
24	BH05 - 1.5	31/10/22	S		X	1	1	
25	BH05 - 2.0	31/10/22	S		X	1	1	
26	BH06 - 0.1	31/10/22	S		X	1	1	
27	BH06 - 0.5	31/10/22	S		X	1	1	
28	BH06 - 1.0	31/10/22	S		X	1	1	
29	BH07 - 0.1	31/10/22	S		X	1	1	
30	BH07 - 0.5	31/10/22	S		X	1	1	
31	BH07 - 1.0	31/10/22	S		X	1	1	
32	BH08 - 0.1	31/10/22	S		X	1	1	
33	BH08 - 0.5	31/10/22	S		X	1	1	
34	BH08 - 1.0	31/10/22	S		X	1	1	
35	BH08 - 1.5	31/10/22	S		X	1	1	
36	BH08 - 2.0	31/10/22	S		X	1	1	
37	BH09 - 0.1	1/11/22	S		X	1	1	
38	BH09 - 0.5	1/11/22	S		X	1	1	
39	BH09 - 1.0	1/11/22	S		X	1	1	
40	BH10 - 0.1	1/11/22	S		X	1	1	
41	BH10 - 0.5	1/11/22	S		X	1	1	
42	BH10 - 1.0	1/11/22	S		X	1	1	
43	BH11 - 0.1	1/11/22	S		X	1	1	
44	BH11 - 0.5	1/11/22	S		X	1	1	
45	BH11 - 1.0	1/11/22	S		X	1	1	
46	BH12 - 0.1	1/11/22	S		X	1	1	
47	BH12 - 0.5	1/11/22	S		X	1	1	
48	BH12 - 1.0	1/11/22	S		X	1	1	
	Total Counts			-	-	##		

Method of Shipment	Courier ( )	Hand Delivered	Postal	Name		Date	__/__/__	Time	__:__
Eurofins | mgt Laboratory Use Only	Received By	L-Boxsell	SYD | BNE | MEL | PER | ADL | NTL | DRW	Signature	Date	4/11/22	Time	3:30	Temperature 7.1
	Received By		SYD | BNE | MEL | PER | ADL | NTL | DRW		Date	__/__/__	Time		Report № 948206

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

Eurofins Environment Testing Australia Pty Ltd trading as Eurofins | mgt

CHAIN OF CUSTODY RECORD

ABN 50 005 085 521

- ☐ Sydney Laboratory — Unit F3 Bld.F, 16 Mars Rd Lane Cove West, NSW 2066 — 02 9900 8400 — EnviroSampleNSW@eurofins.com
- ☐ Brisbane Laboratory — Unit 1, 21 Smallwood PL Murarrie, QLD 4172 — 07 3902 4600 — EnviroSampleQLD@eurofins.com
- ☐ Perth Laboratory — Unit 2, 91 Leach Highway, Kewdale WA 6105 — 08 9251 9600 — EnviroSampleWA@eurofins.com
- ☐ Melbourne Laboratory — 2 Kingston Town Close, Oakleigh, VIC 3166 — 03 8564 5000 — EnviroSampleVic@eurofins.com

Company	Agon	Project №	-	Project Manager	JO
Address	68 Northbourne Ave, Canberra ACT 2600	Project Name	Fairbairn	EDD Format (ESdat, EQuIS, Custom)	ESDAT
Contact Name	John O'Brien			Sampler(s)	KL
Phone №	0431582323			Handed over by	K.L
Special Directions				Email for Invoice	john.o'brien@agonenviro.com.au; finance@agonenviro.com.au;
Purchase Order				Email for Results	john.o'brien@agonenviro.com.au
Quote ID №	Quotation # 190129AEGA				

Analyses (Note: Where metals are requested, please specify "Total" or "Filtered"; SUITE codes must be used to attract SUITE pricing)

Containers: Jar (Glass); Jar (HDPE); ENM Bag; Bag Acid Sulphate Soil; Small plastic bottle; Vial (headspace); Plastic bottle (inorganics); Amber bottle

Turnaround Time (TAT) Requirements (Default will be 5 days if not ticked): Overnight (9am)*; 1 Day*; 2 Day*; 3 Day*; 5 Day; Other ( ) — * Surcharges apply

№	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))	HOLD	Jar (Glass)	Jar (HDPE)	Sample Comments / Dangerous Goods Hazard Warning
1	BH13 - 0.1	1/11/22	S	X	1	1	
2	BH13 - 0.5	1/11/22	S	X	1	1	
3	BH13 - 1.0	1/11/22	S	X	1	1	
4	QC01	31/10/22	S	X	1	1	
5	QC02	31/10/22	S	X	1	1	
6	QC03	31/10/22	S	X	1	1	
7	QC04	31/10/22	S	X	1	1	
8	QC06	31/10/22	S	X	1	1	
9	QC07	31/10/22	S	X	1	1	
10	QC08	1/11/22	S	X	1	1	
35							
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48							
	Total Counts			-	##		

Method of Shipment: Courier (#) | Hand Delivered | Postal | Name | Date __/__/__ | Time __:__

Eurofins | mgt Laboratory Use Only	Received By	C-Boxsell	ACT SYD | BNE | MEL | PER | ADL | NTL | DRW	[signature]	Date 4/11/22	Time 3.50	Temperature 7.1
	Received By		SYD | BNE | MEL | PER | ADL | NTL | DRW		Date __/__/__	Time	Report № 958250

Eurofins Environment Testing Australia Pty Ltd trading as Eurofins | mgt

CHAIN OF CUSTODY RECORD

ABN 50 005 085 521

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

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

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

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

Company	Agon	Project №	-	Project Manager	JO
Address	68 Northbourne Ave, Canberra ACT 2600	Project Name	Fairbairn	EDD Format (ESdat, EQuIS, Custom)	ESDAT
Contact Name	John O'Brien			Sampler(s)	KL
Phone №	0431582323			Handed over by	K.L
Special Directions	5 Day TAT			Email for Invoice	john.o'brien@agonenviro.com.au; finance@agonenviro.com.au;
Purchase Order				Email for Results	john.o'brien@agonenviro.com.au
Quote ID №	Quotation # 190129AEGA				

Analyses (Note: Where metals are requested, please specify "Total" or "Filtered". SUITE code must be used to attract SUITE pricing)

Containers: Jar (Glass), Jar (HDPE), ENM Bag, Acid Sulphate Soil, Small plastic bottle, Vial (headspace), Plastic bottle (inorganics), Amber bottle

Turnaround Time (TAT) Requirements (Default will be 5 days if not ticked): Overnight (9am)* / 1 Day* / 2 Day* / 3 Day* / ✓ 5 Day / Other ( ) — * Surcharges apply

№	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))	B7A	B13	PFAS Short Suite	Jar (Glass)	Jar (HDPE)	Sample Comments / Dangerous Goods Hazard Warning
1	BH01 - 0.1	31/10/22	S	X	X		1	1	
2	BH01 - 0.5	31/10/22	S	X	X	X	1	1	
3	BH01 - 1.0	31/10/22	S				1	1	
4	BH01 - 1.5	31/10/22	S	X	X		1	1	
5	BH01 - 2.0	31/10/22	S				1	1	
6	BH02 - 0.1	31/10/22	S	X	X	X	1	1	
7	BH02 - 0.5	31/10/22	S				1	1	
8	BH01 - 1.0	31/10/22	S	X	X		1	1	
9	BH02 - 1.5	31/10/22	S				1	1	
10	BH02 - 2.0	31/10/22	S	X	X		1	1	
11	BH03 - 0.1	31/10/22	S	X	X	X	1	1	
12	BH03 - 0.5	31/10/22	S	X	X		1	1	
13	BH03 - 1.0	31/10/22	S				1	1	
14	BH03 - 1.5	31/10/22	S				1	1	
15	BH03 - 2.0	31/10/22	S				1	1	
16	BH04 - 0.1	31/10/22	S	X	X		1	1	
17	BH04 - 0.5	31/10/22	S	X	X	X	1	1	
18	BH04 - 1.0	31/10/22	S				1	1	
19	BH04 - 1.5	31/10/22	S				1	1	
20	BH04 - 2.0	31/10/22	S				1	1	
21	BH05 - 0.1	31/10/22	S	X	X		1	1	
22	BH05 - 0.5	31/10/22	S	X	X	X	1	1	
23	BH05 - 1.0	31/10/22	S				1	1	
24	BH05 - 1.5	31/10/22	S	X	X	X	1	1	
25	BH05 - 2.0	31/10/22	S				1	1	
26	BH06 - 0.1	31/10/22	S	X	X		1	1	
27	BH06 - 0.5	31/10/22	S	X	X	X	1	1	
28	BH06 - 1.0	31/10/22	S				1	1	
29	BH07 - 0.1	31/10/22	S	X	X		1	1	
30	BH07 - 0.5	31/10/22	S	X	X	X	1	1	
31	BH07 - 1.0	31/10/22	S				1	1	
32	BH08 - 0.1	31/10/22	S	X	X	X	1	1	
33	BH08 - 0.5	31/10/22	S				1	1	
34	BH08 - 1.0	31/10/22	S	X	X		1	1	
35	BH08 - 1.5	31/10/22	S				1	1	
36	BH08 - 2.0	31/10/22	S				1	1	
37	BH09 - 0.1	1/11/22	S	X	X	X	1	1	
38	BH09 - 0.5	1/11/22	S				1	1	
39	BH09 - 1.0	1/11/22	S	X	X		1	1	
40	BH10 - 0.1	1/11/22	S				1	1	
41	BH10 - 0.5	1/11/22	S	X	X	X	1	1	
42	BH10 - 1.0	1/11/22	S				1	1	
43	BH11 - 0.1	1/11/22	S	X	X		1	1	
44	BH11 - 0.5	1/11/22	S				1	1	
45	BH11 - 1.0	1/11/22	S	X	X	X	1	1	
46	BH12 - 0.1	1/11/22	S				1	1	
47	BH12 - 0.5	1/11/22	S	X	X		1	1	
48	BH12 - 1.0	1/11/22	S				1	1	
	Total Counts		-	-	-	-	##		

Method of Shipment: Courier (#) / Hand Delivered / Postal — Name — Date _/_/_ — Time _:_

Eurofins | mgt Laboratory Use Only								
Received By	L. Baxter (AG)	SYD | BNE | MEL | PER | ADL | NTL | DRW	Signature	Date	11-11-22	Time	3:00	Temperature: 7.1
Received By		SYD | BNE | MEL | PER | ADL | NTL | DRW		Date	_/_/_	Time	_:_	Report №: 938250

CHAIN OF CUSTODY RECORD

ABN 50 005 085 521

- ☐ Sydney Laboratory — Unit F3 Bld.F, 16 Mars Rd, Lane Cove West, NSW 2066 — 02 9900 8400 — EnviroSampleNSW@eurofins.com
- ☐ Brisbane Laboratory — Unit 1, 21 Smallwood Pl, Murarrie, QLD 4172 — 07 3902 4600 — EnviroSampleQLD@eurofins.com
- ☐ Perth Laboratory — Unit 2, 91 Leach Highway, Kewdale WA 6105 — 08 9251 9600 — EnviroSampleWA@eurofins.com
- ☐ Melbourne Laboratory — 2 Kingston Town Close, Oakleigh, VIC 3166 — 03 8564 5000 — EnviroSampleVic@eurofins.com

Company	Agon
Address	68 Northbourne Ave, Canberra ACT 2600
Contact Name	John O'Brien
Phone №	0431582323
Special Directions	5 Day TAT
Purchase Order	
Quote ID №	Quotation # 190129AEGA
Project №	
Project Name	Fairbairn
Project Manager	JO
EDD Format (ESdat, EQuIS, Custom)	ESDAT
Sampler(s)	KL
Handed over by	K.L
Email for Invoice	john.o'brien@agonenviro.com.au; finance@agonenviro.com.au;
Email for Results	john.o'brien@agonenviro.com.au

Analyses (Note: Where metals are requested, please specify "Total" or "Filtered") SUITE code must be used to attract SUITE pricing)

Turnaround Time (TAT) Requirements (Default will be 5 days if not ticked)
- ☐ Overnight (9am)*
- ☐ 1 Day*
- ☐ 2 Day*
- ☐ 3 Day*
- ☐ 5 Day
- ☐ Other ( )

* Surcharges apply

№	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))	B7A	B13	PFAS Short Suite	8 Metals	Jar (Glass)	Jar (HDPE)	ENM Bag	Bag Acid Suphate Soil	Small plastic bottle	Vial (headspace)	Plastic bottle (inorganics)	Amber bottle	Sample Comments / Dangerous Goods Hazard Warning
1	BH13 - 0.1	1/11/22	S	X	X	X		1	1							
2	BH13 - 0.5	1/11/22	S					1	1							
3	BH13 - 1.0	1/11/22	S					1	1							
4	QC01	31/10/22	S	X	X	X		1	1							
5	QC02	31/10/22	S	X	X			1	1							
6	QC03	31/10/22	S	X	X	X		1	1							
7	QC04	31/10/22	S	X	X			1	1							
8	QC06	31/10/22	S					1	1							
9	QC07	31/10/22	S					1	1							
10	QC09	1/11/22	S					1	1							
35																
36																
37																
38																
39																
40																
41																
42																
43																
44																
45																
46																
47																
48																
	Total Counts			-	-	-		##								

Method of Shipment: ☐ Courier (#) ☐ Hand Delivered ☐ Postal — Name

Eurofins | mgt Laboratory Use Only							
Received By	L. Conseil	SYD | BNE | MEL | PER | ADL | NTL | DRW	Signature	Date 14.11.22	Time 3.00	Temperature 7.1	
Received By		SYD | BNE | MEL | PER | ADL | NTL | DRW		Date __/__/__	Time __:__	Report № 938250	

Date __/__/__ Time __:__

Agon Environmental Pty Ltd - ACT
68 Northbourne Ave
Canberra
ACT 2060

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: **John O Brien - ACT Manager**

Report **938250-S**
Project name FAIRBAIRN
Received Date Nov 11, 2022

Client Sample ID			**BH01 - 0.1**	**BH01 - 0.5**	**BH01 - 1.5**	**BH02 - 0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**R22-No0012649**	**R22-No0012650**	**R22-No0012652**	**R22-No0012654**
Date Sampled			**Nov 01, 2022**	**Nov 01, 2022**	**Nov 01, 2022**	**Nov 01, 2022**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	118	122	126	139
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			BH01 - 0.1	BH01 - 0.5	BH01 - 1.5	BH02 - 0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0012649	R22-No0012650	R22-No0012652	R22-No0012654
Date Sampled			Nov 01, 2022	Nov 01, 2022	Nov 01, 2022	Nov 01, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	84	80	82	81
p-Terphenyl-d14 (surr.)	1	%	83	77	74	75
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	123	107	102	106
Tetrachloro-m-xylene (surr.)	1	%	112	103	101	102
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	123	107	102	106
Tetrachloro-m-xylene (surr.)	1	%	112	103	101	102
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4.6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1

Client Sample ID			BH01 - 0.1	BH01 - 0.5	BH01 - 1.5	BH02 - 0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0012649	R22-No0012650	R22-No0012652	R22-No0012654
Date Sampled			Nov 01, 2022	Nov 01, 2022	Nov 01, 2022	Nov 01, 2022
Test/Reference	LOR	Unit				
Phenols (Halogenated)						
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Nitrophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	70	70	72	71
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Metals M8						
Arsenic	2	mg/kg	3.9	5.9	6.2	4.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	0.5
Chromium	5	mg/kg	64	64	72	64
Copper	5	mg/kg	13	20	23	18
Lead	5	mg/kg	16	33	14	40
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	10	18	20	10
Zinc	5	mg/kg	26	24	34	120
% Moisture	1	%	15	17	16	13
Per- and Polyfluoroalkyl Substances (PFASs) - Short						
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	< 10	-	< 10
13C2-6:2 FTSA (surr.)	1	%	-	84	-	88
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	< 5	-	5.4
18O2-PFHxS (surr.)	1	%	-	107	-	104
13C8-PFOS (surr.)	1	%	-	108	-	104
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	< 5	-	< 5
13C8-PFOA (surr.)	1	%	-	102	-	104
Sum (PFHxS + PFOS)*	5	ug/kg	-	< 5	-	5.4
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5	-	5.4
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	< 5	-	5.4

Client Sample ID			BH02 - 1.0	BH02 - 2.0	BH03 - 0.1	BH03 - 0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0012656	R22-No0012658	R22-No0012659	R22-No0012660
Date Sampled			Nov 01, 2022	Nov 01, 2022	Nov 01, 2022	Nov 01, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	80	129	88	87
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	1.0	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	1.0	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	2.0	< 0.5
2-Fluorobiphenyl (surr.)	1	%	83	78	83	91
p-Terphenyl-d14 (surr.)	1	%	79	77	73	85
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			BH02 - 1.0	BH02 - 2.0	BH03 - 0.1	BH03 - 0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0012656	R22-No0012658	R22-No0012659	R22-No0012660
Date Sampled			Nov 01, 2022	Nov 01, 2022	Nov 01, 2022	Nov 01, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	93	102	69	101
Tetrachloro-m-xylene (surr.)	1	%	106	104	102	112
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	93	102	69	101
Tetrachloro-m-xylene (surr.)	1	%	106	104	102	112
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4.6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Nitrophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2

Client Sample ID			BH02 - 1.0	BH02 - 2.0	BH03 - 0.1	BH03 - 0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0012656	R22-No0012658	R22-No0012659	R22-No0012660
Date Sampled			Nov 01, 2022	Nov 01, 2022	Nov 01, 2022	Nov 01, 2022
Test/Reference	LOR	Unit				
Phenols (non-Halogenated)						
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	72	66	66	81
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Metals M8						
Arsenic	2	mg/kg	5.7	3.1	3.6	8.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	100	97	35	55
Copper	5	mg/kg	22	19	11	21
Lead	5	mg/kg	20	12	25	25
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	24	21	13	16
Zinc	5	mg/kg	34	49	34	28
% Moisture	1	%	20	11	16	19
Per- and Polyfluoroalkyl Substances (PFASs) - Short						
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	< 10	-
13C2-6:2 FTSA (surr.)	1	%	-	-	87	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	[N09]11	-
18O2-PFHxS (surr.)	1	%	-	-	98	-
13C8-PFOS (surr.)	1	%	-	-	99	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	< 5	-
13C8-PFOA (surr.)	1	%	-	-	96	-
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	11	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	11	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	11	-

Client Sample ID			BH04 - 0.1	BH04 - 0.5	BH05 - 0.1	BH05 - 0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0012664	R22-No0012665	R22-No0012669	R22-No0012670
Date Sampled			Nov 01, 2022	Nov 01, 2022	Nov 01, 2022	Nov 01, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	105	135	89	137
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	82	81	75	80
p-Terphenyl-d14 (surr.)	1	%	75	73	69	76
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			BH04 - 0.1	BH04 - 0.5	BH05 - 0.1	BH05 - 0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0012664	R22-No0012665	R22-No0012669	R22-No0012670
Date Sampled			Nov 01, 2022	Nov 01, 2022	Nov 01, 2022	Nov 01, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	85	96	94	95
Tetrachloro-m-xylene (surr.)	1	%	82	102	84	101
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	85	96	94	95
Tetrachloro-m-xylene (surr.)	1	%	82	102	84	101
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4.6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Nitrophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2

Client Sample ID			BH04 - 0.1	BH04 - 0.5	BH05 - 0.1	BH05 - 0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0012664	R22-No0012665	R22-No0012669	R22-No0012670
Date Sampled			Nov 01, 2022	Nov 01, 2022	Nov 01, 2022	Nov 01, 2022
Test/Reference	LOR	Unit				
Phenols (non-Halogenated)						
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	89	69	78	71
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Metals M8						
Arsenic	2	mg/kg	3.4	5.0	3.9	4.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	36	49	34	47
Copper	5	mg/kg	12	13	12	15
Lead	5	mg/kg	16	14	19	11
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	14	10	13	12
Zinc	5	mg/kg	33	24	75	22
% Moisture	1	%	14	13	19	16
Per- and Polyfluoroalkyl Substances (PFASs) - Short						
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	< 10	-	< 10
13C2-6:2 FTSA (surr.)	1	%	-	89	-	90
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	< 5	-	< 5
18O2-PFHxS (surr.)	1	%	-	104	-	102
13C8-PFOS (surr.)	1	%	-	106	-	106
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	< 5	-	< 5
13C8-PFOA (surr.)	1	%	-	102	-	104
Sum (PFHxS + PFOS)*	5	ug/kg	-	< 5	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	< 5	-	< 5

Client Sample ID			BH05 - 1.5	BH06 - 0.1	BH06 - 0.5	[G01]BH07 - 0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0012672	R22-No0012674	R22-No0012675	R22-No0012677
Date Sampled			Nov 01, 2022	Nov 01, 2022	Nov 01, 2022	Nov 01, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	106	92	91	119
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	76	78	75	91
p-Terphenyl-d14 (surr.)	1	%	84	71	68	87
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5

Client Sample ID			BH05 - 1.5	BH06 - 0.1	BH06 - 0.5	[G01]BH07 - 0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0012672	R22-No0012674	R22-No0012675	R22-No0012677
Date Sampled			Nov 01, 2022	Nov 01, 2022	Nov 01, 2022	Nov 01, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 10
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 1
Dibutylchlorendate (surr.)	1	%	80	98	92	57
Tetrachloro-m-xylene (surr.)	1	%	80	79	79	106
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 1
Dibutylchlorendate (surr.)	1	%	80	98	92	57
Tetrachloro-m-xylene (surr.)	1	%	80	79	79	106
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4.6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Nitrophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.5

Client Sample ID			BH05 - 1.5	BH06 - 0.1	BH06 - 0.5	[G01]BH07 - 0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0012672	R22-No0012674	R22-No0012675	R22-No0012677
Date Sampled			Nov 01, 2022	Nov 01, 2022	Nov 01, 2022	Nov 01, 2022
Test/Reference	LOR	Unit				
Phenols (non-Halogenated)						
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 1
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 1
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	85	83	77	93
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Metals M8						
Arsenic	2	mg/kg	4.8	3.6	4.6	4.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	38	55	72	51
Copper	5	mg/kg	19	12	15	19
Lead	5	mg/kg	13	20	14	18
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	19	11	12	18
Zinc	5	mg/kg	28	31	23	45
% Moisture	1	%	16	13	15	17
Per- and Polyfluoroalkyl Substances (PFASs) - Short						
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	-	< 10	-
13C2-6:2 FTSA (surr.)	1	%	91	-	87	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	< 5	-
18O2-PFHxS (surr.)	1	%	102	-	102	-
13C8-PFOS (surr.)	1	%	102	-	106	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	< 5	-
13C8-PFOA (surr.)	1	%	101	-	101	-
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	< 5	-

Client Sample ID			BH07 - 0.5	BH08 - 0.1	BH08 - 1.0	[G01]BH09 - 0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0012678	R22-No0012680	R22-No0012682	R22-No0012685
Date Sampled			Nov 01, 2022	Nov 01, 2022	Nov 01, 2022	Nov 01, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	88	87	86	86
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	79	79	82	95
p-Terphenyl-d14 (surr.)	1	%	77	62	75	101
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5

Client Sample ID			BH07 - 0.5	BH08 - 0.1	BH08 - 1.0	[G01]BH09 - 0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0012678	R22-No0012680	R22-No0012682	R22-No0012685
Date Sampled			Nov 01, 2022	Nov 01, 2022	Nov 01, 2022	Nov 01, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 10
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.5
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 1
Dibutylchlorendate (surr.)	1	%	90	56	90	98
Tetrachloro-m-xylene (surr.)	1	%	86	86	97	106
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 1
Dibutylchlorendate (surr.)	1	%	90	56	90	98
Tetrachloro-m-xylene (surr.)	1	%	86	86	97	106
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4.6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Nitrophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.5

Client Sample ID			BH07 - 0.5	BH08 - 0.1	BH08 - 1.0	[G01]BH09 - 0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0012678	R22-No0012680	R22-No0012682	R22-No0012685
Date Sampled			Nov 01, 2022	Nov 01, 2022	Nov 01, 2022	Nov 01, 2022
Test/Reference	LOR	Unit				
Phenols (non-Halogenated)						
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 1
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 1
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	88	76	86	91
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Metals M8						
Arsenic	2	mg/kg	4.8	2.8	7.6	3.5
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	69	77	45	81
Copper	5	mg/kg	14	18	28	8.4
Lead	5	mg/kg	15	13	19	15
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	9.6	22	24	19
Zinc	5	mg/kg	23	36	31	29
% Moisture	1	%	15	12	17	6.7
Per- and Polyfluoroalkyl Substances (PFASs) - Short						
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	-	< 10
13C2-6:2 FTSA (surr.)	1	%	87	85	-	83
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	[N09]24	< 5	-	< 5
18O2-PFHxS (surr.)	1	%	101	103	-	103
13C8-PFOS (surr.)	1	%	103	105	-	101
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	< 5	-	< 5
13C8-PFOA (surr.)	1	%	101	102	-	101
Sum (PFHxS + PFOS)*	5	ug/kg	24	< 5	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	24	< 5	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	24	< 5	-	< 5

Client Sample ID			BH09 - 1.0	BH10 - 0.5	BH11 - 0.1	BH11 - 1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0012687	R22-No0012689	R22-No0012691	R22-No0012693
Date Sampled			Nov 01, 2022	Nov 01, 2022	Nov 01, 2022	Nov 01, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	126	102	112	125
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	70	86	83	81
p-Terphenyl-d14 (surr.)	1	%	76	77	76	73
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			BH09 - 1.0	BH10 - 0.5	BH11 - 0.1	BH11 - 1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0012687	R22-No0012689	R22-No0012691	R22-No0012693
Date Sampled			Nov 01, 2022	Nov 01, 2022	Nov 01, 2022	Nov 01, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	98	102	99	91
Tetrachloro-m-xylene (surr.)	1	%	104	105	104	99
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	98	102	99	91
Tetrachloro-m-xylene (surr.)	1	%	104	105	104	99
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4.6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Nitrophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2

Client Sample ID			BH09 - 1.0	BH10 - 0.5	BH11 - 0.1	BH11 - 1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0012687	R22-No0012689	R22-No0012691	R22-No0012693
Date Sampled			Nov 01, 2022	Nov 01, 2022	Nov 01, 2022	Nov 01, 2022
Test/Reference	LOR	Unit				
Phenols (non-Halogenated)						
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	52	74	72	70
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Metals M8						
Arsenic	2	mg/kg	6.2	5.0	3.7	3.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	59	85	60	69
Copper	5	mg/kg	16	21	11	17
Lead	5	mg/kg	14	14	14	14
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	14	16	9.6	15
Zinc	5	mg/kg	30	31	32	45
% Moisture	1	%	11	21	17	17
Per- and Polyfluoroalkyl Substances (PFASs) - Short						
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	< 10	-	< 10
13C2-6:2 FTSA (surr.)	1	%	-	81	-	83
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	5.7	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	[N09]11	-	< 5
18O2-PFHxS (surr.)	1	%	-	96	-	102
13C8-PFOS (surr.)	1	%	-	99	-	98
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	< 5	-	< 5
13C8-PFOA (surr.)	1	%	-	96	-	97
Sum (PFHxS + PFOS)*	5	ug/kg	-	16.7	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	11	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	16.7	-	< 5

Client Sample ID			[G01]BH13 - 0.1	QC01	QC02	QC03
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0012697	R22-No0012700	R22-No0012701	R22-No0012702
Date Sampled			Nov 01, 2022	Nov 01, 2022	Nov 01, 2022	Nov 01, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	141	89	86	81
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.7
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.9
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.0
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	2.9
2-Fluorobiphenyl (surr.)	1	%	97	79	87	82
p-Terphenyl-d14 (surr.)	1	%	105	71	77	72
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05

Client Sample ID			[G01]BH13 - 0.1	QC01	QC02	QC03
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0012697	R22-No0012700	R22-No0012701	R22-No0012702
Date Sampled			Nov 01, 2022	Nov 01, 2022	Nov 01, 2022	Nov 01, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
b-HCH	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 10	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.5	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	112	74	83	75
Tetrachloro-m-xylene (surr.)	1	%	129	80	83	84
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	112	74	83	75
Tetrachloro-m-xylene (surr.)	1	%	129	80	83	84
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4.6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Nitrophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.5	< 0.2	< 0.2	< 0.2

Client Sample ID			[G01]BH13 - 0.1	QC01	QC02	QC03
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0012697	R22-No0012700	R22-No0012701	R22-No0012702
Date Sampled			Nov 01, 2022	Nov 01, 2022	Nov 01, 2022	Nov 01, 2022
Test/Reference	LOR	Unit				
Phenols (non-Halogenated)						
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 1	< 0.4	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 1	< 0.5	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	74	84	91	83
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Metals M8						
Arsenic	2	mg/kg	2.5	7.0	6.2	3.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	27	90	97	40
Copper	5	mg/kg	9.5	19	22	10
Lead	5	mg/kg	11	29	20	19
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	9.5	16	20	11
Zinc	5	mg/kg	47	27	38	25
% Moisture	1	%	3.6	17	21	15
Per- and Polyfluoroalkyl Substances (PFASs) - Short						
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	-	< 10
13C2-6:2 FTSA (surr.)	1	%	93	89	-	93
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	< 5	-	[N09]11
18O2-PFHxS (surr.)	1	%	101	103	-	100
13C8-PFOS (surr.)	1	%	100	102	-	98
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	< 5	-	< 5
13C8-PFOA (surr.)	1	%	103	98	-	97
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	-	11
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	-	11
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	-	11

Client Sample ID			QC04
Sample Matrix			Soil
Eurofins Sample No.			R22-No0012703
Date Sampled			Nov 01, 2022
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons - 1999 NEPM Fractions			
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
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	%	130
Total Recoverable Hydrocarbons - 2013 NEPM Fractions			
Naphthalene[N02]	0.5	mg/kg	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50
TRH C6-C10	20	mg/kg	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20
Polycyclic Aromatic Hydrocarbons			
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2
Acenaphthene	0.5	mg/kg	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5
Anthracene	0.5	mg/kg	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5
Chrysene	0.5	mg/kg	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5
Fluorene	0.5	mg/kg	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5
Naphthalene	0.5	mg/kg	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5
Pyrene	0.5	mg/kg	< 0.5
Total PAH*	0.5	mg/kg	< 0.5
2-Fluorobiphenyl (surr.)	1	%	81
p-Terphenyl-d14 (surr.)	1	%	75
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

Client Sample ID			QC04
Sample Matrix			Soil
Eurofins Sample No.			R22-No0012703
Date Sampled			Nov 01, 2022
Test/Reference	LOR	Unit	
Organochlorine Pesticides			
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	%	89
Tetrachloro-m-xylene (surr.)	1	%	102
Polychlorinated Biphenyls			
Aroclor-1016	0.1	mg/kg	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1
Total PCB*	0.1	mg/kg	< 0.1
Dibutylchlorendate (surr.)	1	%	89
Tetrachloro-m-xylene (surr.)	1	%	102
Phenols (Halogenated)			
2-Chlorophenol	0.5	mg/kg	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	< 1
2.4.6-Trichlorophenol	1	mg/kg	< 1
2.6-Dichlorophenol	0.5	mg/kg	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1
Pentachlorophenol	1	mg/kg	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10
Total Halogenated Phenol*	1	mg/kg	< 1
Phenols (non-Halogenated)			
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5
2-Nitrophenol	1	mg/kg	< 1
2.4-Dimethylphenol	0.5	mg/kg	< 0.5
2.4-Dinitrophenol	5	mg/kg	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2

Client Sample ID			QC04
Sample Matrix			**Soil**
Eurofins Sample No.			**R22-No0012703**
Date Sampled			**Nov 01, 2022**
Test/Reference	LOR	Unit	
Phenols (non-Halogenated)			
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4
Total cresols*	0.5	mg/kg	< 0.5
4-Nitrophenol	5	mg/kg	< 5
Dinoseb	20	mg/kg	< 20
Phenol	0.5	mg/kg	< 0.5
Phenol-d6 (surr.)	1	%	71
Total Non-Halogenated Phenol*	20	mg/kg	< 20
Total Recoverable Hydrocarbons - 2013 NEPM Fractions			
TRH >C10-C16	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
Metals M8			
Arsenic	2	mg/kg	3.7
Cadmium	0.4	mg/kg	< 0.4
Chromium	5	mg/kg	37
Copper	5	mg/kg	13
Lead	5	mg/kg	12
Mercury	0.1	mg/kg	< 0.1
Nickel	5	mg/kg	12
Zinc	5	mg/kg	29
% Moisture	1	%	13

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	Nov 18, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Nov 18, 2022	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Nov 18, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Nov 18, 2022	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Phenols (Halogenated)	Sydney	Nov 18, 2022	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Phenols (non-Halogenated)	Sydney	Nov 18, 2022	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Nov 18, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Metals M8	Sydney	Nov 18, 2022	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Organochlorine Pesticides	Sydney	Nov 18, 2022	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Nov 18, 2022	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
% Moisture	Sydney	Nov 14, 2022	14 Days
- Method: LTM-GEN-7080 Moisture			
Per- and Polyfluoroalkyl Substances (PFASs) - Short	Sydney	Nov 22, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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Company Name: Agon Environmental Pty Ltd - ACT
Address: 68 Northbourne Ave
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ACT 2060

Project Name: HOLD: FAIRBAIRN

Order No.:
Report #: 938250
Phone: 0419 170 791
Fax:

Received: Nov 4, 2022 3:30 PM
Due: Feb 2, 2023
Priority: 60 Day
Contact Name: John O Brien - ACT Manager

Eurofins Analytical Services Manager : Quinn Raw

Sample Detail						HOLD
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	BH01 - 0.1	Nov 01, 2022		Water	R22-No0012649	X
2	BH01 - 0.5	Nov 01, 2022		Water	R22-No0012650	X
3	BH01 - 1.0	Nov 01, 2022		Water	R22-No0012651	X
4	BH01 - 1.5	Nov 01, 2022		Water	R22-No0012652	X
5	BH01 - 2.0	Nov 01, 2022		Water	R22-No0012653	X
6	BH02 - 0.1	Nov 01, 2022		Water	R22-No0012654	X
7	BH02 - 0.5	Nov 01, 2022		Water	R22-No0012655	X
8	BH01 - 1.0	Nov 01, 2022		Water	R22-No0012656	X
9	BH02 - 1.5	Nov 01, 2022		Water	R22-No0012657	X
10	BH02 - 2.0	Nov 01, 2022		Water	R22-No0012658	X
11	BH03 - 0.1	Nov 01, 2022		Water	R22-No0012659	X
12	BH03 - 0.5	Nov 01, 2022		Water	R22-No0012660	X
13	BH03 - 1.0	Nov 01, 2022		Water	R22-No0012661	X
14	BH03 - 1.5	Nov 01, 2022		Water	R22-No0012662	X

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Company Name: Agon Environmental Pty Ltd - ACT
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Project Name: HOLD: FAIRBAIRN

Order No.:
Report #: 938250
Phone: 0419 170 791
Fax:

Received: Nov 4, 2022 3:30 PM
Due: Feb 2, 2023
Priority: 60 Day
Contact Name: John O Brien - ACT Manager

Eurofins Analytical Services Manager : Quinn Raw

Sample Detail						HOLD
Sydney Laboratory - NATA # 1261 Site # 18217						X
15	BH03 - 2.0	Nov 01, 2022		Water	R22-No0012663	X
16	BH04 - 0.1	Nov 01, 2022		Water	R22-No0012664	X
17	BH04 - 0.5	Nov 01, 2022		Water	R22-No0012665	X
18	BH04 - 1.0	Nov 01, 2022		Water	R22-No0012666	X
19	BH04 - 1.5	Nov 01, 2022		Water	R22-No0012667	X
20	BH04 - 2.0	Nov 01, 2022		Water	R22-No0012668	X
21	BH05 - 0.1	Nov 01, 2022		Water	R22-No0012669	X
22	BH05 - 0.5	Nov 01, 2022		Water	R22-No0012670	X
23	BH05 - 1.0	Nov 01, 2022		Water	R22-No0012671	X
24	BH05 - 1.5	Nov 01, 2022		Water	R22-No0012672	X
25	BH05 - 2.0	Nov 01, 2022		Water	R22-No0012673	X
26	BH06 - 0.1	Nov 01, 2022		Water	R22-No0012674	X
27	BH06 - 0.5	Nov 01, 2022		Water	R22-No0012675	X
28	BH06 - 1.0	Nov 01, 2022		Water	R22-No0012676	X
29	BH07 - 0.1	Nov 01, 2022		Water	R22-No0012677	X
30	BH07 - 0.5	Nov 01, 2022		Water	R22-No0012678	X

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Eurofins Analytical Services Manager : Quinn Raw

Sample Detail						HOLD
Sydney Laboratory - NATA # 1261 Site # 18217						X
31	BH07 - 1.0	Nov 01, 2022		Water	R22-No0012679	X
32	BH08 - 0.1	Nov 01, 2022		Water	R22-No0012680	X
33	BH08 - 0.5	Nov 01, 2022		Water	R22-No0012681	X
34	BH08 - 1.0	Nov 01, 2022		Water	R22-No0012682	X
35	BH08 - 1.5	Nov 01, 2022		Water	R22-No0012683	X
36	BH08 - 2.0	Nov 01, 2022		Water	R22-No0012684	X
37	BH09 - 0.1	Nov 01, 2022		Water	R22-No0012685	X
38	BH09 - 0.5	Nov 01, 2022		Water	R22-No0012686	X
39	BH09 - 1.0	Nov 01, 2022		Water	R22-No0012687	X
40	BH10 - 0.1	Nov 01, 2022		Water	R22-No0012688	X
41	BH10 - 0.5	Nov 01, 2022		Water	R22-No0012689	X
42	BH10 - 1.0	Nov 01, 2022		Water	R22-No0012690	X
43	BH11 - 0.1	Nov 01, 2022		Water	R22-No0012691	X
44	BH11 - 0.5	Nov 01, 2022		Water	R22-No0012692	X
45	BH11 - 1.0	Nov 01, 2022		Water	R22-No0012693	X
46	BH12 - 0.1	Nov 01, 2022		Water	R22-No0012694	X

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Priority: 60 Day
Contact Name: John O Brien - ACT Manager

Eurofins Analytical Services Manager : Quinn Raw

Sample Detail						HOLD
Sydney Laboratory - NATA # 1261 Site # 18217						X
47	BH12 - 0.5	Nov 01, 2022		Water	R22-No0012695	X
48	BH12 - 1.0	Nov 01, 2022		Water	R22-No0012696	X
49	BH13 - 0.1	Nov 01, 2022		Water	R22-No0012697	X
50	BH13 - 0.5	Nov 01, 2022		Water	R22-No0012698	X
51	BH13 - 1.0	Nov 01, 2022		Water	R22-No0012699	X
52	QC01	Nov 01, 2022		Water	R22-No0012700	X
53	QC02	Nov 01, 2022		Water	R22-No0012701	X
54	QC03	Nov 01, 2022		Water	R22-No0012702	X
55	QC04	Nov 01, 2022		Water	R22-No0012703	X
56	QC06	Nov 01, 2022		Water	R22-No0012704	X
57	QC07	Nov 01, 2022		Water	R22-No0012705	X
58	QC09	Nov 01, 2022		Water	R22-No0012706	X
59	QC05	Nov 01, 2022		Water	R22-No0012865	X
60	QC08	Nov 01, 2022		Water	R22-No0012866	X
Test Counts						60

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

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

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

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

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

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

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

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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 - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	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	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Phenols (Halogenated)							
2-Chlorophenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
2.4.5-Trichlorophenol	mg/kg	< 1			1	Pass	
2.4.6-Trichlorophenol	mg/kg	< 1			1	Pass	
2.6-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	< 1			1	Pass	
Pentachlorophenol	mg/kg	< 1			1	Pass	
Tetrachlorophenols - Total	mg/kg	< 10			10	Pass	
Method Blank							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	mg/kg	< 20			20	Pass	
2-Methyl-4.6-dinitrophenol	mg/kg	< 5			5	Pass	
2-Nitrophenol	mg/kg	< 1			1	Pass	
2.4-Dimethylphenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dinitrophenol	mg/kg	< 5			5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.2			0.2	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 0.4			0.4	Pass	
4-Nitrophenol	mg/kg	< 5			5	Pass	
Dinoseb	mg/kg	< 20			20	Pass	
Phenol	mg/kg	< 0.5			0.5	Pass	
Total Non-Halogenated Phenol*	mg/kg	< 0			20	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
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							
Metals M8							
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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Per- and Polyfluoroalkyl Substances (PFASs) - Short							
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/kg	< 10			10	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Sum of US EPA PFAS (PFOS + PFOA)*	ug/kg	-			5	N/A	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	97			70-130	Pass	
TRH C10-C14	%	78			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	98			70-130	Pass	
Toluene	%	95			70-130	Pass	
Ethylbenzene	%	93			70-130	Pass	
m&p-Xylenes	%	104			70-130	Pass	
o-Xylene	%	103			70-130	Pass	
Xylenes - Total*	%	104			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	114			70-130	Pass	
TRH C6-C10	%	97			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	92			70-130	Pass	
Acenaphthylene	%	91			70-130	Pass	
Anthracene	%	101			70-130	Pass	
Benz(a)anthracene	%	81			70-130	Pass	
Benzo(a)pyrene	%	89			70-130	Pass	
Benzo(b&j)fluoranthene	%	87			70-130	Pass	
Benzo(g.h.i)perylene	%	81			70-130	Pass	
Benzo(k)fluoranthene	%	98			70-130	Pass	
Chrysene	%	97			70-130	Pass	
Dibenz(a.h)anthracene	%	87			70-130	Pass	
Fluoranthene	%	97			70-130	Pass	
Fluorene	%	94			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	87			70-130	Pass	
Naphthalene	%	92			70-130	Pass	
Phenanthrene	%	86			70-130	Pass	
Pyrene	%	98			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	117			70-130	Pass	
4.4'-DDD	%	90			70-130	Pass	
4.4'-DDE	%	104			70-130	Pass	
4.4'-DDT	%	101			70-130	Pass	
a-HCH	%	100			70-130	Pass	
Aldrin	%	101			70-130	Pass	
b-HCH	%	96			70-130	Pass	
d-HCH	%	102			70-130	Pass	
Dieldrin	%	105			70-130	Pass	
Endosulfan I	%	96			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan II	%	101			70-130	Pass	
Endosulfan sulphate	%	119			70-130	Pass	
Endrin	%	114			70-130	Pass	
Endrin aldehyde	%	99			70-130	Pass	
Endrin ketone	%	121			70-130	Pass	
g-HCH (Lindane)	%	107			70-130	Pass	
Heptachlor	%	108			70-130	Pass	
Heptachlor epoxide	%	109			70-130	Pass	
Hexachlorobenzene	%	111			70-130	Pass	
Methoxychlor	%	92			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	122			70-130	Pass	
Aroclor-1254	%	94			70-130	Pass	
Aroclor-1260	%	116			70-130	Pass	
LCS - % Recovery							
Phenols (Halogenated)							
2-Chlorophenol	%	88			25-140	Pass	
2.4-Dichlorophenol	%	78			25-140	Pass	
2.4.5-Trichlorophenol	%	85			25-140	Pass	
2.4.6-Trichlorophenol	%	78			25-140	Pass	
2.6-Dichlorophenol	%	80			25-140	Pass	
4-Chloro-3-methylphenol	%	80			25-140	Pass	
Pentachlorophenol	%	64			25-140	Pass	
Tetrachlorophenols - Total	%	71			25-140	Pass	
LCS - % Recovery							
Phenols (non-Halogenated)							
2-Methyl-4.6-dinitrophenol	%	37			25-140	Pass	
2-Nitrophenol	%	78			25-140	Pass	
2.4-Dimethylphenol	%	86			25-140	Pass	
2-Methylphenol (o-Cresol)	%	85			25-140	Pass	
3&4-Methylphenol (m&p-Cresol)	%	84			25-140	Pass	
4-Nitrophenol	%	72			25-140	Pass	
Dinoseb	%	46			25-140	Pass	
Phenol	%	82			25-140	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH >C10-C16	%	75			70-130	Pass	
LCS - % Recovery							
Metals M8							
Arsenic	%	93			80-120	Pass	
Cadmium	%	100			80-120	Pass	
Chromium	%	99			80-120	Pass	
Copper	%	95			80-120	Pass	
Lead	%	95			80-120	Pass	
Mercury	%	100			80-120	Pass	
Nickel	%	99			80-120	Pass	
Zinc	%	98			80-120	Pass	
LCS - % Recovery							
Per- and Polyfluoroalkyl Substances (PFASs) - Short							
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	106			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	102			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	99			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	108			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S22-No0046473	NCP	%	91			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Toluene	S22-No0046473	NCP	%	78			70-130	Pass	
m&p-Xylenes	S22-No0046473	NCP	%	88			70-130	Pass	
o-Xylene	S22-No0046473	NCP	%	93			70-130	Pass	
Xylenes - Total*	S22-No0046473	NCP	%	90			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH C6-C10	S22-No0046473	NCP	%	91			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S22-No0039901	NCP	%	70			70-130	Pass	
Anthracene	S22-No0037806	NCP	%	70			70-130	Pass	
Benzo(b&j)fluoranthene	S22-No0039901	NCP	%	76			70-130	Pass	
Chrysene	S22-No0037806	NCP	%	72			70-130	Pass	
Fluoranthene	S22-No0037806	NCP	%	73			70-130	Pass	
Fluorene	S22-No0039901	NCP	%	73			70-130	Pass	
Naphthalene	S22-No0039901	NCP	%	74			70-130	Pass	
Phenanthrene	S22-No0039901	NCP	%	76			70-130	Pass	
Pyrene	S22-No0037806	NCP	%	73			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
4.4'-DDT	S22-No0039901	NCP	%	90			70-130	Pass	
a-HCH	S22-No0039901	NCP	%	77			70-130	Pass	
b-HCH	S22-No0039901	NCP	%	80			70-130	Pass	
d-HCH	S22-No0039901	NCP	%	76			70-130	Pass	
Endosulfan I	S22-No0039901	NCP	%	75			70-130	Pass	
Endosulfan II	S22-No0039901	NCP	%	74			70-130	Pass	
Methoxychlor	S22-No0037806	NCP	%	80			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	R22-No0012650	CP	%	108			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	R22-No0012650	CP	%	81			70-130	Pass	
4.4'-DDD	R22-No0012650	CP	%	77			70-130	Pass	
4.4'-DDE	R22-No0012650	CP	%	76			70-130	Pass	
Aldrin	R22-No0012650	CP	%	72			70-130	Pass	
Dieldrin	R22-No0012650	CP	%	74			70-130	Pass	
Endosulfan sulphate	R22-No0012650	CP	%	74			70-130	Pass	
Endrin	R22-No0012650	CP	%	85			70-130	Pass	
Endrin aldehyde	R22-No0012650	CP	%	71			70-130	Pass	
Endrin ketone	R22-No0012650	CP	%	78			70-130	Pass	
g-HCH (Lindane)	R22-No0012650	CP	%	70			70-130	Pass	
Heptachlor	R22-No0012650	CP	%	70			70-130	Pass	
Heptachlor epoxide	R22-No0012650	CP	%	79			70-130	Pass	
Hexachlorobenzene	R22-No0012650	CP	%	79			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	R22-No0012650	CP	%	90			70-130	Pass	
Aroclor-1254	R22-No0012650	CP	%	126			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	R22-No0012650	CP	%	102			70-130	Pass	
Spike - % Recovery									
Metals M8				Result 1					
Arsenic	R22-No0012650	CP	%	98			75-125	Pass	
Cadmium	R22-No0012650	CP	%	109			75-125	Pass	
Chromium	R22-No0012650	CP	%	125			75-125	Pass	
Copper	R22-No0012650	CP	%	94			75-125	Pass	
Lead	R22-No0012650	CP	%	86			75-125	Pass	
Mercury	R22-No0012650	CP	%	110			75-125	Pass	
Nickel	R22-No0012650	CP	%	97			75-125	Pass	
Zinc	R22-No0012650	CP	%	106			75-125	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthylene	S22-No0035885	NCP	%	83			70-130	Pass	
Benzo(a)pyrene	S22-No0035885	NCP	%	77			70-130	Pass	
Benzo(g.h.i)perylene	S22-No0035885	NCP	%	71			70-130	Pass	
Benzo(k)fluoranthene	S22-No0035885	NCP	%	83			70-130	Pass	
Dibenz(a.h)anthracene	S22-No0035885	NCP	%	73			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S22-No0035885	NCP	%	77			70-130	Pass	
Spike - % Recovery									
Per- and Polyfluoroalkyl Substances (PFASs) - Short				Result 1					
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	R22-No0012665	CP	%	103			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	R22-No0012665	CP	%	98			50-150	Pass	
Perfluorooctanoic acid (PFOA)	R22-No0012665	CP	%	107			50-150	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	R22-No0012689	CP	%	74			70-130	Pass	
Ethylbenzene	R22-No0012689	CP	%	73			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	R22-No0012689	CP	%	76			70-130	Pass	
Spike - % Recovery									
Metals M8				Result 1					
Arsenic	R22-No0012689	CP	%	97			75-125	Pass	
Cadmium	R22-No0012689	CP	%	101			75-125	Pass	
Chromium	R22-No0012689	CP	%	99			75-125	Pass	
Copper	R22-No0012689	CP	%	92			75-125	Pass	
Lead	R22-No0012689	CP	%	93			75-125	Pass	
Mercury	R22-No0012689	CP	%	109			75-125	Pass	
Nickel	R22-No0012689	CP	%	101			75-125	Pass	
Zinc	R22-No0012689	CP	%	100			75-125	Pass	
Spike - % Recovery									
Per- and Polyfluoroalkyl Substances (PFASs) - Short				Result 1					
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	R22-No0012700	CP	%	105			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	R22-No0012700	CP	%	99			50-150	Pass	
Perfluorooctanoic acid (PFOA)	R22-No0012700	CP	%	107			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	R22-No0012649	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	R22-No0012649	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	R22-No0012649	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	R22-No0012649	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	R22-No0012649	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	R22-No0012649	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	R22-No0012649	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	R22-No0012649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	R22-No0012649	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	R22-No0012649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	R22-No0012649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	R22-No0012649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	R22-No0012649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	R22-No0012649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	R22-No0012649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	R22-No0012649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	R22-No0012649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	R22-No0012649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	R22-No0012649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	R22-No0012649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	R22-No0012649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	R22-No0012649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	R22-No0012649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	R22-No0012649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	R22-No0012649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	R22-No0012649	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	R22-No0012649	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	R22-No0012649	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	R22-No0012649	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	R22-No0012649	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	R22-No0012649	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	R22-No0012649	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	R22-No0012649	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	R22-No0012649	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	R22-No0012649	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	R22-No0012649	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	R22-No0012649	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	R22-No0012649	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	R22-No0012649	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	R22-No0012649	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	R22-No0012649	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	R22-No0012649	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	R22-No0012649	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	R22-No0012649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	R22-No0012649	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	R22-No0012649	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	R22-No0012649	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	R22-No0012649	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	R22-No0012649	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	R22-No0012649	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	R22-No0012649	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	R22-No0012649	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Phenols (Halogenated)				Result 1	Result 2	RPD			
2-Chlorophenol	R22-No0012649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dichlorophenol	R22-No0012649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-Trichlorophenol	R22-No0012649	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4.6-Trichlorophenol	R22-No0012649	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.6-Dichlorophenol	R22-No0012649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chloro-3-methylphenol	R22-No0012649	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Pentachlorophenol	R22-No0012649	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Tetrachlorophenols - Total	R22-No0012649	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Phenols (non-Halogenated)				Result 1	Result 2	RPD			
2-Cyclohexyl-4.6-dinitrophenol	R22-No0012649	CP	mg/kg	< 20	< 20	<1	30%	Pass	
2-Methyl-4.6-dinitrophenol	R22-No0012649	CP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Nitrophenol	R22-No0012649	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4-Dimethylphenol	R22-No0012649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dinitrophenol	R22-No0012649	CP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Methylphenol (o-Cresol)	R22-No0012649	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
3&4-Methylphenol (m&p-Cresol)	R22-No0012649	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
4-Nitrophenol	R22-No0012649	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Dinoseb	R22-No0012649	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Phenol	R22-No0012649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Metals M8				Result 1	Result 2	RPD			
Arsenic	R22-No0012649	CP	mg/kg	3.9	3.7	3.9	30%	Pass	
Cadmium	R22-No0012649	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	R22-No0012649	CP	mg/kg	64	64	<1	30%	Pass	
Copper	R22-No0012649	CP	mg/kg	13	12	9.3	30%	Pass	
Lead	R22-No0012649	CP	mg/kg	16	15	7.8	30%	Pass	
Mercury	R22-No0012649	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	R22-No0012649	CP	mg/kg	10	9.7	3.8	30%	Pass	
Zinc	R22-No0012649	CP	mg/kg	26	25	5.7	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	R22-No0012649	CP	%	15	12	16	30%	Pass	
Duplicate									
Per- and Polyfluoroalkyl Substances (PFASs) - Short				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	R22-No0012659	CP	ug/kg	< 10	< 10	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	R22-No0012659	CP	ug/kg	11	11	2.4	30%	Pass	
Perfluorooctanoic acid (PFOA)	R22-No0012659	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	R22-No0012669	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	R22-No0012669	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	R22-No0012669	CP	mg/kg	< 50	< 50	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	R22-No0012669	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	R22-No0012669	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	R22-No0012669	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Metals M8				Result 1	Result 2	RPD			
Arsenic	R22-No0012669	CP	mg/kg	3.9	4.3	8.7	30%	Pass	
Cadmium	R22-No0012669	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	R22-No0012669	CP	mg/kg	34	42	20	30%	Pass	
Copper	R22-No0012669	CP	mg/kg	12	11	8.4	30%	Pass	
Lead	R22-No0012669	CP	mg/kg	19	20	4.6	30%	Pass	
Mercury	R22-No0012669	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	R22-No0012669	CP	mg/kg	13	13	5.0	30%	Pass	
Zinc	R22-No0012669	CP	mg/kg	75	71	4.9	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	R22-No0012669	CP	%	19	17	11	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	R22-No0012687	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	R22-No0012687	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	R22-No0012687	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	R22-No0012687	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	R22-No0012687	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	R22-No0012687	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	R22-No0012687	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	R22-No0012687	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	R22-No0012687	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	R22-No0012687	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	R22-No0012687	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	R22-No0012687	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	R22-No0012687	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	R22-No0012687	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	R22-No0012687	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	R22-No0012687	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	R22-No0012687	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	R22-No0012687	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	R22-No0012687	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	R22-No0012687	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	R22-No0012687	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	R22-No0012687	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	R22-No0012687	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	R22-No0012687	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	R22-No0012687	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	R22-No0012687	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	R22-No0012687	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	R22-No0012687	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	R22-No0012687	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	R22-No0012687	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	R22-No0012687	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	R22-No0012687	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	R22-No0012687	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	R22-No0012687	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	R22-No0012687	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	R22-No0012687	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	R22-No0012687	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	R22-No0012687	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	R22-No0012687	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	R22-No0012687	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	R22-No0012687	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	R22-No0012687	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	R22-No0012687	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	R22-No0012687	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	R22-No0012687	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	R22-No0012687	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	R22-No0012687	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	R22-No0012687	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	R22-No0012687	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	R22-No0012687	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	R22-No0012687	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	R22-No0012687	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	R22-No0012687	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	R22-No0012687	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Phenols (Halogenated)				Result 1	Result 2	RPD			
2-Chlorophenol	R22-No0012687	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dichlorophenol	R22-No0012687	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-Trichlorophenol	R22-No0012687	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4.6-Trichlorophenol	R22-No0012687	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.6-Dichlorophenol	R22-No0012687	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chloro-3-methylphenol	R22-No0012687	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Pentachlorophenol	R22-No0012687	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Tetrachlorophenols - Total	R22-No0012687	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Phenols (non-Halogenated)				Result 1	Result 2	RPD			
2-Cyclohexyl-4.6-dinitrophenol	R22-No0012687	CP	mg/kg	< 20	< 20	<1	30%	Pass	
2-Methyl-4.6-dinitrophenol	R22-No0012687	CP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Nitrophenol	R22-No0012687	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4-Dimethylphenol	R22-No0012687	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dinitrophenol	R22-No0012687	CP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Methylphenol (o-Cresol)	R22-No0012687	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
3&4-Methylphenol (m&p-Cresol)	R22-No0012687	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
4-Nitrophenol	R22-No0012687	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Dinoseb	R22-No0012687	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Phenol	R22-No0012687	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Metals M8				Result 1	Result 2	RPD			
Arsenic	R22-No0012687	CP	mg/kg	6.2	6.4	3.7	30%	Pass	
Cadmium	R22-No0012687	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	R22-No0012687	CP	mg/kg	59	61	3.4	30%	Pass	
Copper	R22-No0012687	CP	mg/kg	16	17	1.7	30%	Pass	
Lead	R22-No0012687	CP	mg/kg	14	17	20	30%	Pass	
Mercury	R22-No0012687	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	R22-No0012687	CP	mg/kg	14	14	2.2	30%	Pass	
Zinc	R22-No0012687	CP	mg/kg	30	26	14	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	R22-No0012687	CP	%	11	12	10	30%	Pass	
Duplicate									
Per- and Polyfluoroalkyl Substances (PFASs) - Short				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	R22-No0012697	CP	ug/kg	< 10	< 10	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	R22-No0012697	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	R22-No0012697	CP	ug/kg	< 5	< 5	<1	30%	Pass	

Comments

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
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
N09	Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear/branched standard.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
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:

Bonnie Pu	Analytical Services Manager
Charl Du Preez	Senior Analyst-Metal
Roopesh Rangarajan	Senior Analyst-Organic
Roopesh Rangarajan	Senior Analyst-Volatile

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.

CHAIN OF CUSTODY RECORD

ABN 50 005 085 521

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07 3902 4600 EnviroSampleQLD@eurofins.com

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

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

Company	Agon	Project №	-	Project Manager	JO
Address	68 Northbourne Ave, Canberra ACT 2600	Project Name	Fairbairn	EDD Format (ESdat, EQuIS, Custom)	ESDAT
Contact Name	John O'Brien			Sampler(s)	KL
Phone №	0431582323			Handed over by	K.L
Special Directions	5 Day TAT			Email for Invoice	john.o'brien@agonenviro.com.au; finance@agonenviro.com.au;
Purchase Order				Email for Results	john.o'brien@agonenviro.com.au
Quote ID №	Quotation # 190129AEGA				

Analyses (Note: Where metals are requested, please specify "Total" or "Filtered") SUITE code must be used to attract SUITE pricing)

Containers: Jar (Glass), Jar (HDPE), ENM Bag, Bag Acid Suphate Soil, Small plastic bottle, Vial (headspace), Plastic bottle (inorganics), Amber bottle

Turnaround Time (TAT) Requirements (Default will be 5 days if not ticked)
- ☐ Overnight (9am)*
- ☐ 1 Day*
- ☐ 2 Day*
- ☐ 3 Day*
- ☐ 5 Day
- ☐ Other ( )

* Surcharges apply

№	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))	B7A	B13	PFAS Short Suite	Jar (Glass)	Jar (HDPE)	ENM Bag	Bag Acid Suphate Soil	Small plastic bottle	Vial (headspace)	Plastic bottle (inorganics)	Amber bottle	Sample Comments / Dangerous Goods Hazard Warning
1	BH14 - 0.1	7/11/22	S	X	X	X	1	1							
2	BH14 - 0.5	7/11/22	S	X	X	X	1	1							
3	BH14 - 1.0	7/11/22	S				1	1							
4	BH15 - 0.1	7/11/22	S				1	1							
5	BH15 - 0.5	7/11/22	S	X	X	X	1	1							
6	BH15 - 1.0	7/11/22	S				1	1							
7	BH16 - 0.1	7/11/22	S				1	1							
8	BH16 - 0.5	7/11/22	S	X	X	X	1	1							
9	BH16 - 1.0	7/11/22	S				1	1							
10	BH17 - 0.1	7/11/22	S				1	1							
11	BH17 - 0.5	7/11/22	S	X	X	X	1	1							
12	BH17 - 1.0	7/11/22	S				1	1							
13	BH18 - 0.1	7/11/22	S	X	X	X	1	1							
14	BH18 - 0.5	7/11/22	S				1	1							
15	BH18 - 1.0	7/11/22	S				1	1							
16	BH19 - 0.1	7/11/22	S	X	X	X	1	1							
17	BH19 - 0.5	7/11/22	S	X	X		1	1							
18	BH19 - 1.0	7/11/22	S				1	1							
19	BH19 - 1.5	7/11/22	S				1	1							
21	BH20 - 0.1	7/11/22	S	X	X		1	1							
22	BH20 - 0.5	7/11/22	S	X	X	X	1	1							
23	BH20 - 1.0	7/11/22	S	X	X		1	1							
24	BH20 - 1.5	7/11/22	S				1	1							
25	BH20 - 2.0	7/11/22	S				1	1							
26	BH21 - 0.1	7/11/22	S	X	X		1	1							
27	BH21 - 0.5	7/11/22	S	X	X	X	1	1							
28	BH21 - 1.0	7/11/22	S	X	X		1	1							
29	BH21 - 1.5	7/11/22	S				1	1							
30	BH21 - 2.0	7/11/22	S				1	1							
31	BH22 - 0.1	7/11/22	S	X	X	X	1	1							
32	BH22 - 0.5	7/11/22	S	X	X		1	1							
33	BH22 - 1.0	7/11/22	S	X	X		1	1							
34	BH22 - 1.5	7/11/22	S				1	1							
35	BH22 - 2.0	7/11/22	S				1	1							
36	BH23 - 0.1	7/11/22	S	X	X		1	1							
37	BH23 - 0.5	7/11/22	S	X	X	X	1	1							
38	BH23 - 1.0	7/11/22	S				1	1							
39	BH23 - 1.5	7/11/22	S	X	X		1	1							
40	BH23 - 2.0	7/11/22	S				1	1							

41	BH24 - 0.1	7/11/22	S		X	X		X								1	1							
42	BH24 - 0.5	7/11/22	S		X	X										1	1							
43	BH24 - 1.0	7/11/22	S					X								1	1							
44	BH24 - 1.5	7/11/22	S		X	X										1	1							
45	BH24 - 2.0	7/11/22	S													1	1							
46	BH25 - 0.1	7/11/22	S		X	X										1	1							
47	BH25 - 0.5	7/11/22	S		X	X		X								1	1							
48	BH25 - 1.0	7/11/22	S													1	1							
49	BH25 - 1.5	7/11/22	S		X	X										1	1							
47	BH25 - 2.0	7/11/22	S													1	1							
			Total Counts	-	-	-		-								##								

Method of Shipment | Courier (#) | Hand Delivered | Postal | Name | Date __/__/__ | Time __:__

Eurofins | mgt Laboratory Use Only

Received By: LBrsell ACT | SYD | BNE | MEL | PER | ADL | NTL | DRW | Date 4.11.22 | Time 3:20 | Temperature 19.7

Received By: | SYD | BNE | MEL | PER | ADL | NTL | DRW | Date __/__/__ | Time __:__ | Report № ~~94057~~ 94058

CHAIN OF CUSTODY RECORD

ABN 50 005 085 521

☐ Sydney Laboratory
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02 9900 8400 EnviroSampleNSW@eurofins.com

☐ Brisbane Laboratory
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08 9251 9600 EnviroSampleWA@eurofins.com

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

Company	Agon	Project №	-	Project Manager	JO
Address	68 Northbourne Ave, Canberra ACT 2600	Project Name	Fairbaim	EDD Format (ESdat, EQuIS, Custom)	ESDAT
Contact Name	John O'Brien			Sampler(s)	KL
Phone №	0431582323			Handed over by	K.L
Special Directions	5 Day TAT			Email for Invoice	john.o'brien@agonenviro.com.au; finance@agonenviro.com.au;
Purchase Order				Email for Results	john.o'brien@agonenviro.com.au
Quote ID №	Quotation # 190129AEGA				

Turnaround Time (TAT) Requirements (Default will be 5 days if not ticked)

- Overnight (9am)*
- ☐ 1 Day*
- ☐ 2 Day*
- ☐ 3 Day*
- ☐ 5 Day
- Other ( )

* Surcharges apply

Analyses (Note: Where metals are requested, please specify "Total" or "Filtered". SUITE code must be used to attract SUITE pricing)

Containers: Jar (Glass), Jar (HDPE), ENM Bag, Bag Acid Sulphate Soil, Small plastic bottle, Vial (headspace), Plastic bottle (inorganics), Amber bottle

№	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))	B7A	B13	PFAS Short Suite	8 Metals	Jar (Glass)	Jar (HDPE)	ENM Bag	Bag Acid Sulphate Soil	Small plastic bottle	Vial (headspace)	Plastic bottle (inorganics)	Amber bottle	Sample Comments / Dangerous Goods Hazard Warning
1	QC10	7/11/22	S	X	X	X		1	1							
2	QC11	7/11/22	S					1	1							
3	QC12	7/11/22	S					1	1							
4																
5																
6																
7																
8																
9																
10																
35																
36																
37																
38																
39																
40																
41																
42																
43																
44																
45																
46																
47																
48																
	Total Counts			-	-	-		##								

Method of Shipment	Courier (#)	Hand Delivered	Postal	Name		Date	__/__/__	Time __:__
Eurofins | mgt Laboratory Use Only	Received By	C Borsell	SYD | BNE | MEL | PER | ADL | NTL | DRW	(signature)	Date	1/11/22	Time 3:0	Temperature 19.7
	Received By		SYD | BNE | MEL | PER | ADL | NTL | DRW		Date	__/__/__	Time __:__	Report № ~~940578~~ 940583

Eurofins Environment Testing Australia Pty Ltd trading as Eurofins | mgt

Agon Environmental Pty Ltd - ACT
68 Northbourne Ave
Canberra
ACT 2060

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: **John O Brien - ACT Manager**

Report **940583-S**
Project name FAIRBAIRN
Received Date Nov 11, 2022

Client Sample ID			**BH14 - 0.1**	**BH14 - 0.5**	**BH15 - 0.5**	**BH16 - 0.5**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**R22-No0031490**	**R22-No0031491**	**R22-No0031492**	**R22-No0031493**
Date Sampled			**Nov 07, 2022**	**Nov 07, 2022**	**Nov 07, 2022**	**Nov 07, 2022**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	96	94	90	92
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			BH14 - 0.1	BH14 - 0.5	BH15 - 0.5	BH16 - 0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0031490	R22-No0031491	R22-No0031492	R22-No0031493
Date Sampled			Nov 07, 2022	Nov 07, 2022	Nov 07, 2022	Nov 07, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	87	86	115	109
p-Terphenyl-d14 (surr.)	1	%	83	82	129	115
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	71	66	133	128
Tetrachloro-m-xylene (surr.)	1	%	90	89	120	113
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	71	66	133	128
Tetrachloro-m-xylene (surr.)	1	%	90	89	120	113
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4.6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1

Client Sample ID			BH14 - 0.1	BH14 - 0.5	BH15 - 0.5	BH16 - 0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0031490	R22-No0031491	R22-No0031492	R22-No0031493
Date Sampled			Nov 07, 2022	Nov 07, 2022	Nov 07, 2022	Nov 07, 2022
Test/Reference	LOR	Unit				
Phenols (Halogenated)						
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Nitrophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	72	75	115	107
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Metals M8						
Arsenic	2	mg/kg	2.8	5.7	6.4	6.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	31	65	48	52
Copper	5	mg/kg	9.2	17	19	17
Lead	5	mg/kg	17	14	29	31
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	9.2	14	14	12
Zinc	5	mg/kg	58	23	17	29
% Moisture	1	%	15	20	17	17
Per- and Polyfluoroalkyl Substances (PFASs) - Short						
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
13C2-6:2 FTSA (surr.)	1	%	99	101	88	84
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	7.8	< 5	< 5	< 5
18O2-PFHxS (surr.)	1	%	109	114	104	106
13C8-PFOS (surr.)	1	%	106	110	105	109
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C8-PFOA (surr.)	1	%	103	105	103	98
Sum (PFHxS + PFOS)*	5	ug/kg	7.8	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	7.8	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	7.8	< 5	< 5	< 5

Client Sample ID			BH17 - 0.5	BH18 - 0.1	BH19 - 0.1	BH19 - 0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0031494	R22-No0031495	R22-No0031496	R22-No0031497
Date Sampled			Nov 07, 2022	Nov 07, 2022	Nov 07, 2022	Nov 07, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	95	104	115	111
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	103	96	96	97
p-Terphenyl-d14 (surr.)	1	%	108	96	92	98
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			BH17 - 0.5	BH18 - 0.1	BH19 - 0.1	BH19 - 0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0031494	R22-No0031495	R22-No0031496	R22-No0031497
Date Sampled			Nov 07, 2022	Nov 07, 2022	Nov 07, 2022	Nov 07, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	119	82	86	81
Tetrachloro-m-xylene (surr.)	1	%	107	97	99	100
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	119	82	86	81
Tetrachloro-m-xylene (surr.)	1	%	107	97	99	100
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4.6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Nitrophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2

Client Sample ID			BH17 - 0.5	BH18 - 0.1	BH19 - 0.1	BH19 - 0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0031494	R22-No0031495	R22-No0031496	R22-No0031497
Date Sampled			Nov 07, 2022	Nov 07, 2022	Nov 07, 2022	Nov 07, 2022
Test/Reference	LOR	Unit				
Phenols (non-Halogenated)						
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	100	74	78	82
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Metals M8						
Arsenic	2	mg/kg	4.2	3.0	3.2	5.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	61	51	34	60
Copper	5	mg/kg	15	13	12	22
Lead	5	mg/kg	16	19	18	13
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	10	8.5	8.6	17
Zinc	5	mg/kg	23	30	45	30
% Moisture	1	%	16	15	16	21
Per- and Polyfluoroalkyl Substances (PFASs) - Short						
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	< 10	-
13C2-6:2 FTSA (surr.)	1	%	89	109	111	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	< 5	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	[N09]7.3	[N09]7.3	-
18O2-PFHxS (surr.)	1	%	109	118	112	-
13C8-PFOS (surr.)	1	%	112	114	106	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	< 5	< 5	-
13C8-PFOA (surr.)	1	%	106	112	104	-
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	7.3	7.3	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	7.3	7.3	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	7.3	7.3	-

Client Sample ID			BH20 - 0.1	BH20 - 0.5	BH20 - 1.0	BH21 - 0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0031498	R22-No0031499	R22-No0031500	R22-No0031501
Date Sampled			Nov 07, 2022	Nov 07, 2022	Nov 07, 2022	Nov 07, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	114	98	99	67
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	97	98	101	91
p-Terphenyl-d14 (surr.)	1	%	94	99	112	95
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			BH20 - 0.1	BH20 - 0.5	BH20 - 1.0	BH21 - 0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0031498	R22-No0031499	R22-No0031500	R22-No0031501
Date Sampled			Nov 07, 2022	Nov 07, 2022	Nov 07, 2022	Nov 07, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	88	116	119	108
Tetrachloro-m-xylene (surr.)	1	%	99	100	105	93
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	88	116	119	108
Tetrachloro-m-xylene (surr.)	1	%	99	100	105	93
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4.6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Nitrophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2

Client Sample ID			BH20 - 0.1	BH20 - 0.5	BH20 - 1.0	BH21 - 0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0031498	R22-No0031499	R22-No0031500	R22-No0031501
Date Sampled			Nov 07, 2022	Nov 07, 2022	Nov 07, 2022	Nov 07, 2022
Test/Reference	LOR	Unit				
Phenols (non-Halogenated)						
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	80	103	99	93
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Metals M8						
Arsenic	2	mg/kg	3.9	5.1	5.1	2.7
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	45	66	47	32
Copper	5	mg/kg	13	15	17	9.2
Lead	5	mg/kg	19	16	12	13
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	9.9	10	17	7.5
Zinc	5	mg/kg	45	23	24	38
% Moisture	1	%	16	20	17	15
Per- and Polyfluoroalkyl Substances (PFASs) - Short						
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	< 10	-	-
13C2-6:2 FTSA (surr.)	1	%	-	88	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	< 5	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	< 5	-	-
18O2-PFHxS (surr.)	1	%	-	106	-	-
13C8-PFOS (surr.)	1	%	-	102	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	< 5	-	-
13C8-PFOA (surr.)	1	%	-	99	-	-
Sum (PFHxS + PFOS)*	5	ug/kg	-	< 5	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	< 5	-	-

Client Sample ID			BH21 - 0.5	BH21 - 1.0	BH22 - 0.1	BH22 - 0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0031502	R22-No0031503	R22-No0031504	R22-No0031505
Date Sampled			Nov 07, 2022	Nov 07, 2022	Nov 07, 2022	Nov 07, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	91	95	95	91
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	99	94	88	105
p-Terphenyl-d14 (surr.)	1	%	114	107	104	118
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			BH21 - 0.5	BH21 - 1.0	BH22 - 0.1	BH22 - 0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0031502	R22-No0031503	R22-No0031504	R22-No0031505
Date Sampled			Nov 07, 2022	Nov 07, 2022	Nov 07, 2022	Nov 07, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	131	114	132	[Q09]INT
Tetrachloro-m-xylene (surr.)	1	%	113	105	101	112
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	131	114	132	[Q09]INT
Tetrachloro-m-xylene (surr.)	1	%	113	105	101	112
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4.6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Nitrophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2

Client Sample ID			BH21 - 0.5	BH21 - 1.0	BH22 - 0.1	BH22 - 0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0031502	R22-No0031503	R22-No0031504	R22-No0031505
Date Sampled			Nov 07, 2022	Nov 07, 2022	Nov 07, 2022	Nov 07, 2022
Test/Reference	LOR	Unit				
Phenols (non-Halogenated)						
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	104	94	97	137
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Metals M8						
Arsenic	2	mg/kg	4.2	5.5	2.7	2.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	43	45	29	33
Copper	5	mg/kg	12	22	9.5	9.9
Lead	5	mg/kg	12	13	14	11
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	8.6	16	8.8	7.7
Zinc	5	mg/kg	17	26	28	23
% Moisture	1	%	17	20	17	16
Per- and Polyfluoroalkyl Substances (PFASs) - Short						
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	-	-	< 10
13C2-6:2 FTSA (surr.)	1	%	86	-	-	95
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	-	< 5
18O2-PFHxS (surr.)	1	%	107	-	-	113
13C8-PFOS (surr.)	1	%	105	-	-	112
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	-	< 5
13C8-PFOA (surr.)	1	%	106	-	-	102
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	-	< 5

Client Sample ID			BH22 - 1.5	BH23 - 0.1	BH23 - 0.5	BH23 - 1.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0031506	R22-No0031507	R22-No0031508	R22-No0031509
Date Sampled			Nov 07, 2022	Nov 07, 2022	Nov 07, 2022	Nov 07, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	93	103	102	95
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	88	85	89	92
p-Terphenyl-d14 (surr.)	1	%	103	106	108	119
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			BH22 - 1.5	BH23 - 0.1	BH23 - 0.5	BH23 - 1.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0031506	R22-No0031507	R22-No0031508	R22-No0031509
Date Sampled			Nov 07, 2022	Nov 07, 2022	Nov 07, 2022	Nov 07, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	130	125	130	138
Tetrachloro-m-xylene (surr.)	1	%	104	103	109	119
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	130	125	130	138
Tetrachloro-m-xylene (surr.)	1	%	104	103	109	119
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4.6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Nitrophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2

Client Sample ID			BH22 - 1.5	BH23 - 0.1	BH23 - 0.5	BH23 - 1.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0031506	R22-No0031507	R22-No0031508	R22-No0031509
Date Sampled			Nov 07, 2022	Nov 07, 2022	Nov 07, 2022	Nov 07, 2022
Test/Reference	LOR	Unit				
Phenols (non-Halogenated)						
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	94	94	98	101
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Metals M8						
Arsenic	2	mg/kg	5.3	4.9	4.9	4.2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	36	52	57	58
Copper	5	mg/kg	18	15	19	18
Lead	5	mg/kg	17	15	17	15
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	19	13	16	15
Zinc	5	mg/kg	22	40	27	26
% Moisture	1	%	17	16	19	18
Per- and Polyfluoroalkyl Substances (PFASs) - Short						
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	-	< 10	-
13C2-6:2 FTSA (surr.)	1	%	-	-	86	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	< 5	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	< 5	-
18O2-PFHxS (surr.)	1	%	-	-	112	-
13C8-PFOS (surr.)	1	%	-	-	106	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	< 5	-
13C8-PFOA (surr.)	1	%	-	-	102	-
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	< 5	-

Client Sample ID			BH24 - 0.1	BH24 - 0.5	BH24 - 1.0	BH24 - 1.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0031510	R22-No0031511	R22-No0031512	R22-No0031513
Date Sampled			Nov 07, 2022	Nov 07, 2022	Nov 07, 2022	Nov 07, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	-	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	-	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	-	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	-	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	96	96	-	97
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	-	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	-	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	121	80	-	139
p-Terphenyl-d14 (surr.)	1	%	59	100	-	59
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05

Client Sample ID			BH24 - 0.1	BH24 - 0.5	BH24 - 1.0	BH24 - 1.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0031510	R22-No0031511	R22-No0031512	R22-No0031513
Date Sampled			Nov 07, 2022	Nov 07, 2022	Nov 07, 2022	Nov 07, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
b-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	85	111	-	72
Tetrachloro-m-xylene (surr.)	1	%	70	98	-	71
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	85	111	-	72
Tetrachloro-m-xylene (surr.)	1	%	70	98	-	71
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	< 1	< 1	-	< 1
2.4.6-Trichlorophenol	1	mg/kg	< 1	< 1	-	< 1
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	-	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	-	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	-	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	-	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	< 20	-	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	< 5	-	< 5
2-Nitrophenol	1	mg/kg	< 1	< 1	-	< 1
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2.4-Dinitrophenol	5	mg/kg	< 5	< 5	-	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2

Client Sample ID			BH24 - 0.1	BH24 - 0.5	BH24 - 1.0	BH24 - 1.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0031510	R22-No0031511	R22-No0031512	R22-No0031513
Date Sampled			Nov 07, 2022	Nov 07, 2022	Nov 07, 2022	Nov 07, 2022
Test/Reference	LOR	Unit				
Phenols (non-Halogenated)						
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5	-	< 5
Dinoseb	20	mg/kg	< 20	< 20	-	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Phenol-d6 (surr.)	1	%	80	95	-	101
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	-	< 20
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	-	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	-	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	< 100
Metals M8						
Arsenic	2	mg/kg	3.1	3.6	-	6.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	29	41	-	50
Copper	5	mg/kg	8.4	9.9	-	21
Lead	5	mg/kg	10	11	-	21
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	7.3	6.9	-	14
Zinc	5	mg/kg	21	16	-	20
% Moisture	1	%	2.8	15	22	15
Per- and Polyfluoroalkyl Substances (PFASs) - Short						
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	-	< 10	-
13C2-6:2 FTSA (surr.)	1	%	93	-	96	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	< 5	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	[N09]11	-	< 5	-
18O2-PFHxS (surr.)	1	%	105	-	112	-
13C8-PFOS (surr.)	1	%	102	-	108	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	< 5	-
13C8-PFOA (surr.)	1	%	104	-	101	-
Sum (PFHxS + PFOS)*	5	ug/kg	11	-	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	11	-	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	11	-	< 5	-

Client Sample ID			BH25 - 0.1	BH25 - 0.5	BH25 - 1.5	QC10
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0031514	R22-No0031515	R22-No0031516	R22-No0031517
Date Sampled			Nov 07, 2022	Nov 07, 2022	Nov 07, 2022	Nov 07, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	88	77	102	92
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	149	141	85	96
p-Terphenyl-d14 (surr.)	1	%	60	66	109	121
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			BH25 - 0.1	BH25 - 0.5	BH25 - 1.5	QC10
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0031514	R22-No0031515	R22-No0031516	R22-No0031517
Date Sampled			Nov 07, 2022	Nov 07, 2022	Nov 07, 2022	Nov 07, 2022
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	75	88	118	113
Tetrachloro-m-xylene (surr.)	1	%	71	76	108	121
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	75	88	118	113
Tetrachloro-m-xylene (surr.)	1	%	71	76	108	121
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4.6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Nitrophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2

Client Sample ID			BH25 - 0.1	BH25 - 0.5	BH25 - 1.5	QC10
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R22-No0031514	R22-No0031515	R22-No0031516	R22-No0031517
Date Sampled			Nov 07, 2022	Nov 07, 2022	Nov 07, 2022	Nov 07, 2022
Test/Reference	LOR	Unit				
Phenols (non-Halogenated)						
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	111	103	92	104
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Metals M8						
Arsenic	2	mg/kg	3.4	5.8	6.3	2.5
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	32	41	35	32
Copper	5	mg/kg	8.8	14	19	9.2
Lead	5	mg/kg	14	27	8.7	33
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	8.2	8.3	13	7.9
Zinc	5	mg/kg	20	12	26	51
% Moisture	1	%	15	16	17	15
Per- and Polyfluoroalkyl Substances (PFASs) - Short						
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	< 10	-	< 10
13C2-6:2 FTSA (surr.)	1	%	-	83	-	84
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	< 5	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	< 5	-	5.6
18O2-PFHxS (surr.)	1	%	-	109	-	106
13C8-PFOS (surr.)	1	%	-	105	-	100
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	< 5	-	< 5
13C8-PFOA (surr.)	1	%	-	104	-	98
Sum (PFHxS + PFOS)*	5	ug/kg	-	< 5	-	5.6
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5	-	5.6
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	< 5	-	5.6

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	Nov 18, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Nov 18, 2022	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Nov 18, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Nov 18, 2022	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Phenols (Halogenated)	Sydney	Nov 18, 2022	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Phenols (non-Halogenated)	Sydney	Nov 18, 2022	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Nov 18, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Metals M8	Sydney	Nov 18, 2022	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Organochlorine Pesticides	Sydney	Nov 18, 2022	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Nov 18, 2022	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
% Moisture	Sydney	Nov 14, 2022	14 Days
- Method: LTM-GEN-7080 Moisture			
Per- and Polyfluoroalkyl Substances (PFASs) - Short	Sydney	Nov 18, 2022	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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Company Name: Agon Environmental Pty Ltd - ACT
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ACT 2060

Project Name: FAIRBAIRN

Order No.:
Report #: 940583
Phone: 0419 170 791
Fax:

Received: Nov 11, 2022 3:00 PM
Due: Nov 18, 2022
Priority: 5 Day
Contact Name: John O Brien - ACT Manager

Eurofins Analytical Services Manager : Quinn Raw

Sample Detail						HOLD	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7A	Per- and Polyfluoroalkyl Substances (PFASs) - Short
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X
External Laboratory										
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
1	BH14 - 0.1	Nov 07, 2022		Soil	R22-No0031490		X	X	X	X
2	BH14 - 0.5	Nov 07, 2022		Soil	R22-No0031491		X	X	X	X
3	BH15 - 0.5	Nov 07, 2022		Soil	R22-No0031492		X	X	X	X
4	BH16 - 0.5	Nov 07, 2022		Soil	R22-No0031493		X	X	X	X
5	BH17 - 0.5	Nov 07, 2022		Soil	R22-No0031494		X	X	X	X
6	BH18 - 0.1	Nov 07, 2022		Soil	R22-No0031495		X	X	X	X
7	BH19 - 0.1	Nov 07, 2022		Soil	R22-No0031496		X	X	X	X
8	BH19 - 0.5	Nov 07, 2022		Soil	R22-No0031497		X	X	X	
9	BH20 - 0.1	Nov 07, 2022		Soil	R22-No0031498		X	X	X	
10	BH20 - 0.5	Nov 07, 2022		Soil	R22-No0031499		X	X	X	X
11	BH20 - 1.0	Nov 07, 2022		Soil	R22-No0031500		X	X	X	
12	BH21 - 0.1	Nov 07, 2022		Soil	R22-No0031501		X	X	X	
13	BH21 - 0.5	Nov 07, 2022		Soil	R22-No0031502		X	X	X	X
14	BH21 - 1.0	Nov 07, 2022		Soil	R22-No0031503		X	X	X	

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Project Name: FAIRBAIRN

Order No.:
Report #: 940583
Phone: 0419 170 791
Fax:

Received: Nov 11, 2022 3:00 PM
Due: Nov 18, 2022
Priority: 5 Day
Contact Name: John O Brien - ACT Manager

Eurofins Analytical Services Manager : Quinn Raw

Sample Detail						HOLD	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7A	Per- and Polyfluoroalkyl Substances (PFASs) - Short
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X
15	BH22 - 0.1	Nov 07, 2022		Soil	R22-No0031504		X	X	X	
16	BH22 - 0.5	Nov 07, 2022		Soil	R22-No0031505		X	X	X	X
17	BH22 - 1.5	Nov 07, 2022		Soil	R22-No0031506		X	X	X	
18	BH23 - 0.1	Nov 07, 2022		Soil	R22-No0031507		X	X	X	
19	BH23 - 0.5	Nov 07, 2022		Soil	R22-No0031508		X	X	X	X
20	BH23 - 1.5	Nov 07, 2022		Soil	R22-No0031509		X	X	X	
21	BH24 - 0.1	Nov 07, 2022		Soil	R22-No0031510		X	X	X	X
22	BH24 - 0.5	Nov 07, 2022		Soil	R22-No0031511		X	X	X	
23	BH24 - 1.0	Nov 07, 2022		Soil	R22-No0031512			X		X
24	BH24 - 1.5	Nov 07, 2022		Soil	R22-No0031513		X	X	X	
25	BH25 - 0.1	Nov 07, 2022		Soil	R22-No0031514		X	X	X	
26	BH25 - 0.5	Nov 07, 2022		Soil	R22-No0031515		X	X	X	X
27	BH25 - 1.5	Nov 07, 2022		Soil	R22-No0031516		X	X	X	
28	QC10	Nov 07, 2022		Soil	R22-No0031517		X	X	X	X
29	BH14 - 1.0	Nov 07, 2022		Soil	R22-No0031518	X				
30	BH15 - 0.1	Nov 07, 2022		Soil	R22-No0031519	X				

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Project Name: FAIRBAIRN

Order No.:
Report #: 940583
Phone: 0419 170 791
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Received: Nov 11, 2022 3:00 PM
Due: Nov 18, 2022
Priority: 5 Day
Contact Name: John O Brien - ACT Manager

Eurofins Analytical Services Manager : Quinn Raw

Sample Detail						HOLD	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7A	Per- and Polyfluoroalkyl Substances (PFASs) - Short
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X
31	BH15 - 1.0	Nov 07, 2022		Soil	R22-No0031520	X				
32	BH16 - 0.1	Nov 07, 2022		Soil	R22-No0031521	X				
33	BH16 - 1.0	Nov 07, 2022		Soil	R22-No0031522	X				
34	BH17 - 0.1	Nov 07, 2022		Soil	R22-No0031523	X				
35	BH17 - 1.0	Nov 07, 2022		Soil	R22-No0031524	X				
36	BH18 - 0.5	Nov 07, 2022		Soil	R22-No0031525	X				
37	BH18 - 1.0	Nov 07, 2022		Soil	R22-No0031526	X				
38	BH19 - 1.0	Nov 07, 2022		Soil	R22-No0031527	X				
39	BH19 - 1.5	Nov 07, 2022		Soil	R22-No0031528	X				
40	BH20 - 1.5	Nov 07, 2022		Soil	R22-No0031529	X				
41	BH20 - 2.0	Nov 07, 2022		Soil	R22-No0031530	X				
42	BH21 - 1.5	Nov 07, 2022		Soil	R22-No0031531	X				
43	BH21 - 2.0	Nov 07, 2022		Soil	R22-No0031532	X				
44	BH22 - 1.0	Nov 07, 2022		Soil	R22-No0031533	X				
45	BH22 - 2.0	Nov 07, 2022		Soil	R22-No0031534	X				
46	BH23 - 1.0	Nov 07, 2022		Soil	R22-No0031535	X				

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Project Name: FAIRBAIRN

Order No.:
Report #: 940583
Phone: 0419 170 791
Fax:

Received: Nov 11, 2022 3:00 PM
Due: Nov 18, 2022
Priority: 5 Day
Contact Name: John O Brien - ACT Manager

Eurofins Analytical Services Manager : Quinn Raw

Sample Detail						HOLD	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7A	Per- and Polyfluoroalkyl Substances (PFASs) - Short
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X
47	BH23 - 2.0	Nov 07, 2022		Soil	R22-No0031536	X				
48	BH24 - 2.0	Nov 07, 2022		Soil	R22-No0031537	X				
49	BH25 - 1.0	Nov 07, 2022		Soil	R22-No0031538	X				
50	BH25 - 2.0	Nov 07, 2022		Soil	R22-No0031539	X				
51	QC11	Nov 07, 2022		Soil	R22-No0031540	X				
52	QC12	Nov 07, 2022		Soil	R22-No0031541	X				
Test Counts						24	27	28	27	15

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

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

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

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

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

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

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

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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 - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	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	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Phenols (Halogenated)							
2-Chlorophenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
2.4.5-Trichlorophenol	mg/kg	< 1			1	Pass	
2.4.6-Trichlorophenol	mg/kg	< 1			1	Pass	
2.6-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	< 1			1	Pass	
Pentachlorophenol	mg/kg	< 1			1	Pass	
Tetrachlorophenols - Total	mg/kg	< 10			10	Pass	
Method Blank							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	mg/kg	< 20			20	Pass	
2-Methyl-4.6-dinitrophenol	mg/kg	< 5			5	Pass	
2-Nitrophenol	mg/kg	< 1			1	Pass	
2.4-Dimethylphenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dinitrophenol	mg/kg	< 5			5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.2			0.2	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 0.4			0.4	Pass	
4-Nitrophenol	mg/kg	< 5			5	Pass	
Dinoseb	mg/kg	< 20			20	Pass	
Phenol	mg/kg	< 0.5			0.5	Pass	
Total Non-Halogenated Phenol*	mg/kg	< 0			20	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
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							
Metals M8							
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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Per- and Polyfluoroalkyl Substances (PFASs) - Short							
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/kg	< 10			10	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Sum of US EPA PFAS (PFOS + PFOA)*	ug/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	74			70-130	Pass	
TRH C10-C14	%	87			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	104			70-130	Pass	
Toluene	%	102			70-130	Pass	
Ethylbenzene	%	100			70-130	Pass	
m&p-Xylenes	%	82			70-130	Pass	
o-Xylene	%	96			70-130	Pass	
Xylenes - Total*	%	87			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	120			70-130	Pass	
TRH C6-C10	%	73			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	77			70-130	Pass	
Acenaphthylene	%	77			70-130	Pass	
Anthracene	%	71			70-130	Pass	
Benz(a)anthracene	%	90			70-130	Pass	
Benzo(a)pyrene	%	93			70-130	Pass	
Benzo(b&j)fluoranthene	%	75			70-130	Pass	
Benzo(g.h.i)perylene	%	81			70-130	Pass	
Benzo(k)fluoranthene	%	112			70-130	Pass	
Chrysene	%	77			70-130	Pass	
Dibenz(a.h)anthracene	%	93			70-130	Pass	
Fluoranthene	%	71			70-130	Pass	
Fluorene	%	73			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	70			70-130	Pass	
Naphthalene	%	78			70-130	Pass	
Phenanthrene	%	74			70-130	Pass	
Pyrene	%	75			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	86			70-130	Pass	
4.4'-DDD	%	84			70-130	Pass	
4.4'-DDE	%	87			70-130	Pass	
4.4'-DDT	%	81			70-130	Pass	
a-HCH	%	78			70-130	Pass	
Aldrin	%	91			70-130	Pass	
b-HCH	%	88			70-130	Pass	
d-HCH	%	82			70-130	Pass	
Dieldrin	%	83			70-130	Pass	
Endosulfan I	%	80			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan II	%	84			70-130	Pass	
Endosulfan sulphate	%	96			70-130	Pass	
Endrin	%	84			70-130	Pass	
Endrin aldehyde	%	84			70-130	Pass	
Endrin ketone	%	92			70-130	Pass	
g-HCH (Lindane)	%	82			70-130	Pass	
Heptachlor	%	96			70-130	Pass	
Heptachlor epoxide	%	85			70-130	Pass	
Hexachlorobenzene	%	80			70-130	Pass	
Methoxychlor	%	87			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	87			70-130	Pass	
Aroclor-1254	%	109			70-130	Pass	
Aroclor-1260	%	76			70-130	Pass	
LCS - % Recovery							
Phenols (Halogenated)							
2-Chlorophenol	%	79			25-140	Pass	
2.4-Dichlorophenol	%	71			25-140	Pass	
2.4.5-Trichlorophenol	%	78			25-140	Pass	
2.4.6-Trichlorophenol	%	78			25-140	Pass	
2.6-Dichlorophenol	%	72			25-140	Pass	
4-Chloro-3-methylphenol	%	70			25-140	Pass	
Pentachlorophenol	%	51			25-140	Pass	
Tetrachlorophenols - Total	%	71			25-140	Pass	
LCS - % Recovery							
Phenols (non-Halogenated)							
2-Methyl-4.6-dinitrophenol	%	37			25-140	Pass	
2-Nitrophenol	%	74			25-140	Pass	
2.4-Dimethylphenol	%	70			25-140	Pass	
2.4-Dinitrophenol	%	28			25-140	Pass	
2-Methylphenol (o-Cresol)	%	72			25-140	Pass	
3&4-Methylphenol (m&p-Cresol)	%	72			25-140	Pass	
4-Nitrophenol	%	91			25-140	Pass	
Dinoseb	%	45			25-140	Pass	
Phenol	%	78			25-140	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH >C10-C16	%	86			70-130	Pass	
LCS - % Recovery							
Metals M8							
Arsenic	%	93			80-120	Pass	
Cadmium	%	94			80-120	Pass	
Chromium	%	95			80-120	Pass	
Copper	%	94			80-120	Pass	
Lead	%	91			80-120	Pass	
Mercury	%	104			80-120	Pass	
Nickel	%	95			80-120	Pass	
Zinc	%	96			80-120	Pass	
LCS - % Recovery							
Per- and Polyfluoroalkyl Substances (PFASs) - Short							
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	111			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	107			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	102			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	115			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	N22-No0015722	NCP	%	72			70-130	Pass	
TRH C10-C14	S22-No0037802	NCP	%	72			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S22-No0038026	NCP	%	79			70-130	Pass	
Toluene	S22-No0038026	NCP	%	78			70-130	Pass	
Ethylbenzene	S22-No0038026	NCP	%	76			70-130	Pass	
m&p-Xylenes	S22-No0028039	NCP	%	74			70-130	Pass	
o-Xylene	S22-No0038026	NCP	%	79			70-130	Pass	
Xylenes - Total*	S22-No0028039	NCP	%	78			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S22-No0038026	NCP	%	92			70-130	Pass	
TRH C6-C10	N22-No0015722	NCP	%	72			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S22-No0037144	NCP	%	0.062			70-130	Fail	Q08
Benzo(g.h.i)perylene	S22-No0037144	NCP	%	0.0043			70-130	Fail	Q08
Naphthalene	S22-No0037144	NCP	%	0.0054			70-130	Fail	Q08
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
4.4'-DDD	S22-No0037576	NCP	%	76			70-130	Pass	
4.4'-DDT	S22-No0037576	NCP	%	75			70-130	Pass	
b-HCH	S22-No0037576	NCP	%	72			70-130	Pass	
Endrin	S22-No0037576	NCP	%	87			70-130	Pass	
Heptachlor	S22-No0037576	NCP	%	76			70-130	Pass	
Methoxychlor	S22-No0037144	NCP	%	81			70-130	Pass	
Spike - % Recovery									
Phenols (Halogenated)				Result 1					
2-Chlorophenol	S22-No0033380	NCP	%	79			30-130	Pass	
2.4-Dichlorophenol	S22-No0033380	NCP	%	73			30-130	Pass	
2.4.5-Trichlorophenol	S22-No0033380	NCP	%	99			30-130	Pass	
2.6-Dichlorophenol	S22-No0033380	NCP	%	74			30-130	Pass	
Spike - % Recovery									
Phenols (non-Halogenated)				Result 1					
2-Nitrophenol	S22-No0033380	NCP	%	72			30-130	Pass	
2.4-Dimethylphenol	S22-No0033380	NCP	%	78			30-130	Pass	
2-Methylphenol (o-Cresol)	S22-No0033380	NCP	%	74			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	S22-No0033380	NCP	%	75			30-130	Pass	
Phenol	S22-No0033380	NCP	%	74			30-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S22-No0037802	NCP	%	71			70-130	Pass	
Spike - % Recovery									
Per- and Polyfluoroalkyl Substances (PFASs) - Short				Result 1					
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	S22-No0037792	NCP	%	104			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S22-No0037792	NCP	%	107			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	S22-No0037792	NCP	%	106			50-150	Pass	
Perfluorooctanoic acid (PFOA)	S22-No0037792	NCP	%	107			50-150	Pass	
Spike - % Recovery									

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Organochlorine Pesticides				Result 1					
Chlordanes - Total	R22-No0031491	CP	%	79			70-130	Pass	
4.4'-DDE	R22-No0031491	CP	%	72			70-130	Pass	
a-HCH	R22-No0031491	CP	%	75			70-130	Pass	
Aldrin	R22-No0031491	CP	%	75			70-130	Pass	
d-HCH	R22-No0031491	CP	%	70			70-130	Pass	
Dieldrin	R22-No0031491	CP	%	78			70-130	Pass	
Endosulfan I	R22-No0031491	CP	%	78			70-130	Pass	
Endosulfan II	R22-No0031491	CP	%	73			70-130	Pass	
Endosulfan sulphate	R22-No0031491	CP	%	73			70-130	Pass	
Endrin aldehyde	R22-No0031491	CP	%	80			70-130	Pass	
Endrin ketone	R22-No0031491	CP	%	71			70-130	Pass	
g-HCH (Lindane)	R22-No0031491	CP	%	75			70-130	Pass	
Heptachlor epoxide	R22-No0031491	CP	%	74			70-130	Pass	
Hexachlorobenzene	R22-No0031491	CP	%	77			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	R22-No0031491	CP	%	82			70-130	Pass	
Aroclor-1254	R22-No0031491	CP	%	104			70-130	Pass	
Spike - % Recovery									
Metals M8				Result 1					
Arsenic	R22-No0031509	CP	%	87			75-125	Pass	
Cadmium	R22-No0031509	CP	%	93			75-125	Pass	
Chromium	R22-No0031509	CP	%	89			75-125	Pass	
Copper	R22-No0031509	CP	%	86			75-125	Pass	
Lead	R22-No0031509	CP	%	86			75-125	Pass	
Mercury	R22-No0031509	CP	%	111			75-125	Pass	
Nickel	R22-No0031509	CP	%	84			75-125	Pass	
Zinc	R22-No0031509	CP	%	92			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S22-No0037803	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S22-No0037803	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S22-No0037803	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S22-No0036931	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S22-No0036931	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S22-No0036931	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S22-No0036931	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S22-No0036931	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S22-No0036931	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S22-No0036931	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S22-No0036931	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S22-No0036931	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S22-No0036931	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S22-No0036931	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S22-No0036931	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S22-No0036931	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S22-No0036931	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S22-No0036931	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S22-No0036931	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	R22-No0031490	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	R22-No0031490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	R22-No0031490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	R22-No0031490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	S22-No0037543	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	R22-No0031490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	R22-No0031490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	R22-No0031490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	R22-No0031490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	R22-No0031490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	R22-No0031490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	R22-No0031490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	R22-No0031490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	R22-No0031490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	R22-No0031490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	S22-No0037543	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	R22-No0031490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	R22-No0031490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	R22-No0031490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	R22-No0031490	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	R22-No0031490	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	R22-No0031490	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	R22-No0031490	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	R22-No0031490	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	R22-No0031490	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	R22-No0031490	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	R22-No0031490	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	R22-No0031490	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	R22-No0031490	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Phenols (Halogenated)				Result 1	Result 2	RPD			
2-Chlorophenol	S22-No0036931	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dichlorophenol	S22-No0036931	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-Trichlorophenol	S22-No0036931	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4.6-Trichlorophenol	S22-No0036931	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
2.6-Dichlorophenol	S22-No0036931	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chloro-3-methylphenol	S22-No0036931	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Pentachlorophenol	S22-No0036931	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Tetrachlorophenols - Total	S22-No0036931	NCP	mg/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Phenols (non-Halogenated)				Result 1	Result 2	RPD			
2-Cyclohexyl-4.6-dinitrophenol	S22-No0036931	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
2-Methyl-4.6-dinitrophenol	S22-No0036931	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Nitrophenol	S22-No0036931	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4-Dimethylphenol	S22-No0036931	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dinitrophenol	S22-No0036931	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Methylphenol (o-Cresol)	S22-No0036931	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
3&4-Methylphenol (m&p-Cresol)	S22-No0036931	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
4-Nitrophenol	S22-No0036931	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Dinoseb	S22-No0036931	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
Phenol	S22-No0036931	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S22-No0037803	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S22-No0037803	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S22-No0037803	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Metals M8				Result 1	Result 2	RPD			
Arsenic	R22-No0031490	CP	mg/kg	2.8	2.5	9.6	30%	Pass	
Cadmium	R22-No0031490	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	R22-No0031490	CP	mg/kg	31	34	11	30%	Pass	
Copper	R22-No0031490	CP	mg/kg	9.2	8.7	5.5	30%	Pass	
Lead	R22-No0031490	CP	mg/kg	17	20	16	30%	Pass	
Mercury	R22-No0031490	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	R22-No0031490	CP	mg/kg	9.2	8.8	4.4	30%	Pass	
Zinc	R22-No0031490	CP	mg/kg	58	55	5.6	30%	Pass	
Duplicate									
Per- and Polyfluoroalkyl Substances (PFASs) - Short				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	R22-No0031495	CP	ug/kg	< 10	< 10	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	R22-No0031495	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	R22-No0031495	CP	ug/kg	7.3	6.2	16	30%	Pass	
Perfluorooctanoic acid (PFOA)	R22-No0031495	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	R22-No0031497	CP	%	21	21	<1	30%	Pass	
Duplicate									
Metals M8				Result 1	Result 2	RPD			
Arsenic	R22-No0031498	CP	mg/kg	3.9	2.9	28	30%	Pass	
Cadmium	R22-No0031498	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	R22-No0031498	CP	mg/kg	45	40	12	30%	Pass	
Copper	R22-No0031498	CP	mg/kg	13	11	14	30%	Pass	
Lead	R22-No0031498	CP	mg/kg	19	16	16	30%	Pass	
Mercury	R22-No0031498	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	R22-No0031498	CP	mg/kg	9.9	8.8	12	30%	Pass	
Zinc	R22-No0031498	CP	mg/kg	45	36	22	30%	Pass	
Duplicate									
Metals M8				Result 1	Result 2	RPD			
Arsenic	R22-No0031499	CP	mg/kg	5.1	4.9	4.1	30%	Pass	
Cadmium	R22-No0031499	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	R22-No0031499	CP	mg/kg	66	56	16	30%	Pass	
Copper	R22-No0031499	CP	mg/kg	15	15	3.4	30%	Pass	
Lead	R22-No0031499	CP	mg/kg	16	11	36	30%	Fail	Q15
Mercury	R22-No0031499	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	R22-No0031499	CP	mg/kg	10	10	<1	30%	Pass	
Zinc	R22-No0031499	CP	mg/kg	23	21	6.4	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	R22-No0031502	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	R22-No0031502	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	R22-No0031502	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	R22-No0031502	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	R22-No0031502	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

Duplicate									
BTEX				Result 1	Result 2	RPD			
o-Xylene	R22-No0031502	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	R22-No0031502	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	R22-No0031502	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	R22-No0031502	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	R22-No0031507	CP	%	16	15	2.4	30%	Pass	
Duplicate									
Metals M8				Result 1	Result 2	RPD			
Arsenic	R22-No0031508	CP	mg/kg	4.9	4.1	18	30%	Pass	
Cadmium	R22-No0031508	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	R22-No0031508	CP	mg/kg	57	56	2.2	30%	Pass	
Copper	R22-No0031508	CP	mg/kg	19	18	7.3	30%	Pass	
Lead	R22-No0031508	CP	mg/kg	17	13	28	30%	Pass	
Mercury	R22-No0031508	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	R22-No0031508	CP	mg/kg	16	15	6.1	30%	Pass	
Zinc	R22-No0031508	CP	mg/kg	27	26	4.2	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	R22-No0031517	CP	%	15	14	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
N09	Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear/branched standard.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
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.
Q09	The Surrogate recovery is outside of the recommended acceptance criteria due to matrix interference. Acceptance criteria were met for all other QC
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Quinn Raw	Analytical Services Manager
Charl Du Preez	Senior Analyst-Metal
Raymond Siu	Senior Analyst-Volatile
Roopesh Rangarajan	Senior Analyst-Organic

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

CHAIN OF CUSTODY RECORD

ABN 50 005 085 521

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

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

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

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

Company	Agon	Project №	-	Project Manager	JO
Address	68 Northbourne Ave, Canberra ACT 2600	Project Name	Fairbairn	EDD Format (ESdat, EQuIS, Custom)	ESDAT
Contact Name	John O'Brien			Sampler(s)	KL
Phone №	0431582323			Handed over by	K.L
Special Directions	5 Day TAT			Email for Invoice	john.o'brien@agonenviro.com.au; finance@agonenviro.com.au;
Purchase Order				Email for Results	john.o'brien@agonenviro.com.au
Quote ID №	Quotation # 190129AEGA				

Analyses (Note: Where metals are requested, please specify "Total" or "Filtered". SUITE codes must be used to attract SUITE pricing.)

Turnaround Time (TAT) Requirements (Default will be 5 days if not ticked): Overnight (9am)* / 1 Day* / 2 Day* / 3 Day* / 5 Day / Other ( ) — * Surcharges apply

№	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))		BTA	B13	PFAS Short Chain	PFAS Short Chain ASLP	Jar (Glass)	Jar (HDPE)	ENM Bag	Bag Acid Sulphate Soil	Small plastic bottle	PFAS Bottle	Plastic bottle (inorganics)	Amber bottle	Sample Comments / Dangerous Goods Hazard Warning
1	BH101 - 0.1	25/01/23	S		X	X	X	X	1	1							
2	BH101 - 0.3	25/01/23	S				X	X	1	1							
3	BH101 - 0.5	25/01/23	S				X		1	1							
4	BH102 - 0.1	25/01/23	S				X	X	1	1							
5	BH102 - 0.3	25/01/23	S		X	X	X	X	1	1							
6	BH102 - 0.5	25/01/23	S				X		1	1							
7	BH103 - 0.1	25/01/23	S				X		1	1							
8	BH103 - 0.3	25/01/23	S				X	X	1	1							
9	BH103 - 0.5	25/01/23	S		X	X	X	X	1	1							
10	BH104 - 0.1	25/01/23	S				X	X	1	1							
11	BH104 - 0.3	25/01/23	S				X		1	1							
12	BH104 - 0.5	25/01/23	S		X	X	X	X	1	1							
13	BH105 - 0.1	25/01/23	S				X	X	1	1							
14	BH105 - 0.3	25/01/23	S		X	X	X		1	1							
15	BH105 - 0.5	25/01/23	S				X	X	1	1							
16	BH106 - 0.1	25/01/23	S				X	X	1	1							
17	BH106 - 0.3	25/01/23	S				X		1	1							
18	BH106 - 0.5	25/01/23	S		X	X	X	X	1	1							
19	BH107 - 0.1	25/01/23	S				X	X	1	1							
20	BH107 - 0.3	25/01/23	S				X		1	1							
21	BH107 - 0.5	25/01/23	S				X		1	1							
22	BH108 - 0.1	25/01/23	S		X	X	X	X	1	1							
23	BH108 - 0.3	25/01/23	S				X		1	1							
24	BH108 - 0.5	25/01/23	S				X	X	1	1							
25	BH109 - 0.1	25/01/23	S				X	X	1	1							
26	BH109 - 0.3	25/01/23	S				X		1	1							
27	BH109 - 0.5	25/01/23	S		X	X	X	X	1	1							
28	BH110 - 0.1	25/01/23	S				X		1	1							
29	BH111 - 0.1	25/01/23	S				X		1	1							
30	BH112 - 0.1	25/01/23	S		X	X	X	X	1	1							
31	BH113 - 0.1	25/01/23	S				X		1	1							
32	BH114 - 0.1	25/01/23	S				X	X	1	1							
33	BH115 - 0.1	25/01/23	S		X	X	X		1	1							
34	BH116 - 0.1	25/01/23	S				X	X	1	1							
35	BH117 - 0.1	25/01/23	S		X	X	X		1	1							
36	QC201	25/01/23	S		X	X	X		1	1							Please FWD ALS for analysis
37	QC202	25/01/23	S		X	X	X		1	1							
38	QC203	25/01/23	S		X	X			1	1							
39	QC204	25/01/23	S				X		1	1							
40	RB01	25/01/23	S				X							1			
	Total Counts			-	-	-											

Method of Shipment	Courier (#)	Hand Delivered	Postal	Name		Date	__/__/__	Time	__:__
Eurofins | mgt Laboratory Use Only	Received By	L Bor Sell (AC)	SYD | BNE | MEL | PER | ADL | NTL | DRW	Signature	Date	27/1/23	Time	1:06	Temperature 27.4
	Received By		SYD | BNE | MEL | PER | ADL | NTL | DRW		Date	__/__/__	Time	__:__	Report № 958625

Eurofins Environment Testing Australia Pty Ltd trading as Eurofins | mgt

29.1 chilled.

27.4 -0.9

28.5

Agon Environmental Pty Ltd - ACT
68 Northbourne Ave
Canberra
ACT 2060

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: **John O Brien - ACT Manager**

Report **958625-S**
Project name FAIRBAIRN
Received Date Jan 27, 2023

Client Sample ID			**BH101 - 0.1**	**BH101 - 0.3**	**BH101 - 0.5**	**BH102 - 0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**R23-Ja0040737**	**R23-Ja0040738**	**R23-Ja0040739**	**R23-Ja0040740**
Date Sampled			**Jan 25, 2023**	**Jan 25, 2023**	**Jan 25, 2023**	**Jan 25, 2023**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	-	-	-
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	%	65	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	-
Acenaphthene	0.5	mg/kg	< 0.5	-	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	-
Anthracene	0.5	mg/kg	< 0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Chrysene	0.5	mg/kg	< 0.5	-	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	-	-
Fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Fluorene	0.5	mg/kg	< 0.5	-	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	-
Naphthalene	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			BH101 - 0.1	BH101 - 0.3	BH101 - 0.5	BH102 - 0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R23-Ja0040737	R23-Ja0040738	R23-Ja0040739	R23-Ja0040740
Date Sampled			Jan 25, 2023	Jan 25, 2023	Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	%	121	-	-	-
p-Terphenyl-d14 (surr.)	1	%	130	-	-	-
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	%	[Q09]INT	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	109	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	-	-
Total PCB*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchlorendate (surr.)	1	%	[Q09]INT	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	109	-	-	-
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	-	-	-
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	-
2.4.5-Trichlorophenol	1	mg/kg	< 1	-	-	-
2.4.6-Trichlorophenol	1	mg/kg	< 1	-	-	-

Client Sample ID			BH101 - 0.1	BH101 - 0.3	BH101 - 0.5	BH102 - 0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R23-Ja0040737	R23-Ja0040738	R23-Ja0040739	R23-Ja0040740
Date Sampled			Jan 25, 2023	Jan 25, 2023	Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit				
Phenols (Halogenated)						
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	-
4-Chloro-3-methylphenol	1	mg/kg	< 1	-	-	-
Pentachlorophenol	1	mg/kg	< 1	-	-	-
Tetrachlorophenols - Total	10	mg/kg	< 10	-	-	-
Total Halogenated Phenol*	1	mg/kg	< 1	-	-	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	-	-	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	-	-	-
2-Nitrophenol	1	mg/kg	< 1	-	-	-
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	-	-	-
2.4-Dinitrophenol	5	mg/kg	< 5	-	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	-	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	-	-	-
Total cresols*	0.5	mg/kg	< 0.5	-	-	-
4-Nitrophenol	5	mg/kg	< 5	-	-	-
Dinoseb	20	mg/kg	< 20	-	-	-
Phenol	0.5	mg/kg	< 0.5	-	-	-
Phenol-d6 (surr.)	1	%	101	-	-	-
Total Non-Halogenated Phenol*	20	mg/kg	< 20	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	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	-	-	-
Metals M8						
Arsenic	2	mg/kg	3.3	-	-	-
Cadmium	0.4	mg/kg	< 0.4	-	-	-
Chromium	5	mg/kg	43	-	-	-
Copper	5	mg/kg	18	-	-	-
Lead	5	mg/kg	33	-	-	-
Mercury	0.1	mg/kg	< 0.1	-	-	-
Nickel	5	mg/kg	8.4	-	-	-
Zinc	5	mg/kg	120	-	-	-
% Moisture	1	%	16	16	18	16
Per- and Polyfluoroalkyl Substances (PFASs) - Short						
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
13C2-6:2 FTSA (surr.)	1	%	112	87	84	103
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	5.6	< 5	< 5	< 5
18O2-PFHxS (surr.)	1	%	121	108	96	117
13C8-PFOS (surr.)	1	%	115	119	96	119
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C8-PFOA (surr.)	1	%	121	127	92	127
Sum (PFHxS + PFOS)*	5	ug/kg	5.6	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	5.6	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	5.6	< 5	< 5	< 5

Client Sample ID			BH102 - 0.3	BH102 - 0.5	BH103 - 0.1	BH103 - 0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R23-Ja0040741	R23-Ja0040742	R23-Ja0040743	R23-Ja0040744
Date Sampled			Jan 25, 2023	Jan 25, 2023	Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	-	-	-
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	%	69	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	-
Acenaphthene	0.5	mg/kg	< 0.5	-	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	-
Anthracene	0.5	mg/kg	< 0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Chrysene	0.5	mg/kg	< 0.5	-	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	-	-
Fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Fluorene	0.5	mg/kg	< 0.5	-	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	-
Naphthalene	0.5	mg/kg	< 0.5	-	-	-
Phenanthrene	0.5	mg/kg	< 0.5	-	-	-
Pyrene	0.5	mg/kg	< 0.5	-	-	-
Total PAH*	0.5	mg/kg	< 0.5	-	-	-
2-Fluorobiphenyl (surr.)	1	%	122	-	-	-
p-Terphenyl-d14 (surr.)	1	%	138	-	-	-
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	-	-	-

Client Sample ID			BH102 - 0.3	BH102 - 0.5	BH103 - 0.1	BH103 - 0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R23-Ja0040741	R23-Ja0040742	R23-Ja0040743	R23-Ja0040744
Date Sampled			Jan 25, 2023	Jan 25, 2023	Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
d-HCH	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	0.35	-	-	-
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	0.35	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	0.35	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchlorendate (surr.)	1	%	134	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	112	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	-	-
Total PCB*	0.1	mg/kg	< 0.1	-	-	-
Dibutylchlorendate (surr.)	1	%	134	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	112	-	-	-
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	-	-	-
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	-
2.4.5-Trichlorophenol	1	mg/kg	< 1	-	-	-
2.4.6-Trichlorophenol	1	mg/kg	< 1	-	-	-
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	-
4-Chloro-3-methylphenol	1	mg/kg	< 1	-	-	-
Pentachlorophenol	1	mg/kg	< 1	-	-	-
Tetrachlorophenols - Total	10	mg/kg	< 10	-	-	-
Total Halogenated Phenol*	1	mg/kg	< 1	-	-	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	-	-	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	-	-	-
2-Nitrophenol	1	mg/kg	< 1	-	-	-
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	-	-	-
2.4-Dinitrophenol	5	mg/kg	< 5	-	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	-	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	-	-	-

Client Sample ID			BH102 - 0.3	BH102 - 0.5	BH103 - 0.1	BH103 - 0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R23-Ja0040741	R23-Ja0040742	R23-Ja0040743	R23-Ja0040744
Date Sampled			Jan 25, 2023	Jan 25, 2023	Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit				
Phenols (non-Halogenated)						
Total cresols*	0.5	mg/kg	< 0.5	-	-	-
4-Nitrophenol	5	mg/kg	< 5	-	-	-
Dinoseb	20	mg/kg	< 20	-	-	-
Phenol	0.5	mg/kg	< 0.5	-	-	-
Phenol-d6 (surr.)	1	%	90	-	-	-
Total Non-Halogenated Phenol*	20	mg/kg	< 20	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	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	-	-	-
Metals M8						
Arsenic	2	mg/kg	5.2	-	-	-
Cadmium	0.4	mg/kg	< 0.4	-	-	-
Chromium	5	mg/kg	53	-	-	-
Copper	5	mg/kg	11	-	-	-
Lead	5	mg/kg	25	-	-	-
Mercury	0.1	mg/kg	< 0.1	-	-	-
Nickel	5	mg/kg	6.6	-	-	-
Zinc	5	mg/kg	27	-	-	-
% Moisture	1	%	14	16	9.1	7.1
Per- and Polyfluoroalkyl Substances (PFASs) - Short						
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
13C2-6:2 FTSA (surr.)	1	%	86	86	99	106
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	< 5	6.7	5.1
18O2-PFHxS (surr.)	1	%	127	100	103	118
13C8-PFOS (surr.)	1	%	128	95	96	125
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C8-PFOA (surr.)	1	%	134	88	97	125
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	6.7	5.1
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	6.7	5.1
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	6.7	5.1

Client Sample ID			BH103 - 0.5	BH104 - 0.1	BH104 - 0.3	BH104 - 0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R23-Ja0040745	R23-Ja0040746	R23-Ja0040747	R23-Ja0040748
Date Sampled			Jan 25, 2023	Jan 25, 2023	Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	-	< 20
TRH C10-C14	20	mg/kg	< 20	-	-	< 20
TRH C15-C28	50	mg/kg	< 50	-	-	< 50
TRH C29-C36	50	mg/kg	70	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	70	-	-	< 50

Client Sample ID			BH103 - 0.5	BH104 - 0.1	BH104 - 0.3	BH104 - 0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R23-Ja0040745	R23-Ja0040746	R23-Ja0040747	R23-Ja0040748
Date Sampled			Jan 25, 2023	Jan 25, 2023	Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	87	-	-	62
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	-	< 50
TRH C6-C10	20	mg/kg	< 20	-	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	133	-	-	127
p-Terphenyl-d14 (surr.)	1	%	144	-	-	148
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

Client Sample ID			BH103 - 0.5	BH104 - 0.1	BH104 - 0.3	BH104 - 0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R23-Ja0040745	R23-Ja0040746	R23-Ja0040747	R23-Ja0040748
Date Sampled			Jan 25, 2023	Jan 25, 2023	Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
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	%	[Q09]INT	-	-	[Q09]INT
Tetrachloro-m-xylene (surr.)	1	%	118	-	-	119
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	-	-	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	[Q09]INT	-	-	[Q09]INT
Tetrachloro-m-xylene (surr.)	1	%	118	-	-	119
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	-	-	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	< 1	-	-	< 1
2.4.6-Trichlorophenol	1	mg/kg	< 1	-	-	< 1
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	-	-	< 1
Pentachlorophenol	1	mg/kg	< 1	-	-	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	-	-	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	-	-	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	-	-	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	-	-	< 5
2-Nitrophenol	1	mg/kg	< 1	-	-	< 1
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	-	-	< 0.5
2.4-Dinitrophenol	5	mg/kg	< 5	-	-	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	-	-	< 0.2
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	-	-	< 0.4
Total cresols*	0.5	mg/kg	< 0.5	-	-	< 0.5
4-Nitrophenol	5	mg/kg	< 5	-	-	< 5
Dinoseb	20	mg/kg	< 20	-	-	< 20
Phenol	0.5	mg/kg	< 0.5	-	-	< 0.5
Phenol-d6 (surr.)	1	%	105	-	-	106
Total Non-Halogenated Phenol*	20	mg/kg	< 20	-	-	< 20

Client Sample ID			BH103 - 0.5	BH104 - 0.1	BH104 - 0.3	BH104 - 0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R23-Ja0040745	R23-Ja0040746	R23-Ja0040747	R23-Ja0040748
Date Sampled			Jan 25, 2023	Jan 25, 2023	Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	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
Metals M8						
Arsenic	2	mg/kg	2.8	-	-	6.7
Cadmium	0.4	mg/kg	< 0.4	-	-	< 0.4
Chromium	5	mg/kg	42	-	-	61
Copper	5	mg/kg	9.3	-	-	18
Lead	5	mg/kg	35	-	-	21
Mercury	0.1	mg/kg	< 0.1	-	-	< 0.1
Nickel	5	mg/kg	7.8	-	-	11
Zinc	5	mg/kg	46	-	-	27
% Moisture	1	%	7.5	12	12	12
Per- and Polyfluoroalkyl Substances (PFASs) - Short						
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
13C2-6:2 FTSA (surr.)	1	%	120	89	93	97
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	[N09]5.8	< 5	< 5	< 5
18O2-PFHxS (surr.)	1	%	115	135	100	127
13C8-PFOS (surr.)	1	%	128	105	94	126
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C8-PFOA (surr.)	1	%	139	124	94	122
Sum (PFHxS + PFOS)*	5	ug/kg	5.8	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	5.8	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	5.8	< 5	< 5	< 5

Client Sample ID			BH105 - 0.1	[G01]BH105 - 0.3	BH105 - 0.5	BH106 - 0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R23-Ja0040749	R23-Ja0040750	R23-Ja0040751	R23-Ja0040752
Date Sampled			Jan 25, 2023	Jan 25, 2023	Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	-	-
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	%	-	72	-	-

Client Sample ID			BH105 - 0.1	[G01]BH105 - 0.3	BH105 - 0.5	BH106 - 0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R23-Ja0040749	R23-Ja0040750	R23-Ja0040751	R23-Ja0040752
Date Sampled			Jan 25, 2023	Jan 25, 2023	Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	-
TRH C6-C10	20	mg/kg	-	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	-
Acenaphthene	0.5	mg/kg	-	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	-
Anthracene	0.5	mg/kg	-	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Chrysene	0.5	mg/kg	-	< 0.5	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	-
Fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Fluorene	0.5	mg/kg	-	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	-
Naphthalene	0.5	mg/kg	-	< 0.5	-	-
Phenanthrene	0.5	mg/kg	-	< 0.5	-	-
Pyrene	0.5	mg/kg	-	< 0.5	-	-
Total PAH*	0.5	mg/kg	-	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	-	139	-	-
p-Terphenyl-d14 (surr.)	1	%	-	145	-	-
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	-	-

Client Sample ID			BH105 - 0.1	[G01]BH105 - 0.3	BH105 - 0.5	BH106 - 0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R23-Ja0040749	R23-Ja0040750	R23-Ja0040751	R23-Ja0040752
Date Sampled			Jan 25, 2023	Jan 25, 2023	Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
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	%	-	[Q09]INT	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	121	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 1	-	-
Aroclor-1221	0.1	mg/kg	-	< 1	-	-
Aroclor-1232	0.1	mg/kg	-	< 1	-	-
Aroclor-1242	0.1	mg/kg	-	< 1	-	-
Aroclor-1248	0.1	mg/kg	-	< 1	-	-
Aroclor-1254	0.1	mg/kg	-	< 1	-	-
Aroclor-1260	0.1	mg/kg	-	< 1	-	-
Total PCB*	0.1	mg/kg	-	< 1	-	-
Dibutylchlorendate (surr.)	1	%	-	[Q09]INT	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	121	-	-
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	< 0.5	-	-
2.4-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
2.4.5-Trichlorophenol	1	mg/kg	-	< 1	-	-
2.4.6-Trichlorophenol	1	mg/kg	-	< 1	-	-
2.6-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
4-Chloro-3-methylphenol	1	mg/kg	-	< 1	-	-
Pentachlorophenol	1	mg/kg	-	< 1	-	-
Tetrachlorophenols - Total	10	mg/kg	-	< 10	-	-
Total Halogenated Phenol*	1	mg/kg	-	< 1	-	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	< 20	-	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	< 5	-	-
2-Nitrophenol	1	mg/kg	-	< 1	-	-
2.4-Dimethylphenol	0.5	mg/kg	-	< 0.5	-	-
2.4-Dinitrophenol	5	mg/kg	-	< 5	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	< 0.5	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	< 1	-	-
Total cresols*	0.5	mg/kg	-	< 1	-	-
4-Nitrophenol	5	mg/kg	-	< 5	-	-
Dinoseb	20	mg/kg	-	< 20	-	-
Phenol	0.5	mg/kg	-	< 0.5	-	-
Phenol-d6 (surr.)	1	%	-	113	-	-
Total Non-Halogenated Phenol*	20	mg/kg	-	< 20	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	-	< 50	-	-
TRH >C16-C34	100	mg/kg	-	< 100	-	-
TRH >C34-C40	100	mg/kg	-	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	-

Client Sample ID			BH105 - 0.1	[G01]BH105 - 0.3	BH105 - 0.5	BH106 - 0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R23-Ja0040749	R23-Ja0040750	R23-Ja0040751	R23-Ja0040752
Date Sampled			Jan 25, 2023	Jan 25, 2023	Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit				
Metals M8						
Arsenic	2	mg/kg	-	5.3	-	-
Cadmium	0.4	mg/kg	-	< 0.4	-	-
Chromium	5	mg/kg	-	42	-	-
Copper	5	mg/kg	-	15	-	-
Lead	5	mg/kg	-	28	-	-
Mercury	0.1	mg/kg	-	< 0.1	-	-
Nickel	5	mg/kg	-	11	-	-
Zinc	5	mg/kg	-	79	-	-
% Moisture	1	%	14	16	20	18
Per- and Polyfluoroalkyl Substances (PFASs) - Short						
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
13C2-6:2 FTSA (surr.)	1	%	91	94	98	94
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	10	< 5	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	[N09]190	9.1	[N09]6.4	[N09]7.7
18O2-PFHxS (surr.)	1	%	114	105	110	122
13C8-PFOS (surr.)	1	%	95	97	116	120
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C8-PFOA (surr.)	1	%	121	90	115	115
Sum (PFHxS + PFOS)*	5	ug/kg	190	19.1	6.4	7.7
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	190	9.1	6.4	7.7
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	190	19.1	6.4	7.7

Client Sample ID			BH106 - 0.3	BH106 - 0.5	BH107 - 0.1	BH107 - 0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R23-Ja0040753	R23-Ja0040754	R23-Ja0040755	R23-Ja0040756
Date Sampled			Jan 25, 2023	Jan 25, 2023	Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	-	-
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	%	-	76	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	-
TRH C6-C10	20	mg/kg	-	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	-

Client Sample ID			BH106 - 0.3	BH106 - 0.5	BH107 - 0.1	BH107 - 0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R23-Ja0040753	R23-Ja0040754	R23-Ja0040755	R23-Ja0040756
Date Sampled			Jan 25, 2023	Jan 25, 2023	Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	-
Acenaphthene	0.5	mg/kg	-	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	-
Anthracene	0.5	mg/kg	-	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Chrysene	0.5	mg/kg	-	< 0.5	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	-
Fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Fluorene	0.5	mg/kg	-	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	-
Naphthalene	0.5	mg/kg	-	< 0.5	-	-
Phenanthrene	0.5	mg/kg	-	< 0.5	-	-
Pyrene	0.5	mg/kg	-	< 0.5	-	-
Total PAH*	0.5	mg/kg	-	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	-	118	-	-
p-Terphenyl-d14 (surr.)	1	%	-	131	-	-
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	%	-	137	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	108	-	-

Client Sample ID			BH106 - 0.3	BH106 - 0.5	BH107 - 0.1	BH107 - 0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R23-Ja0040753	R23-Ja0040754	R23-Ja0040755	R23-Ja0040756
Date Sampled			Jan 25, 2023	Jan 25, 2023	Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	137	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	108	-	-
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	< 0.5	-	-
2.4-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
2.4.5-Trichlorophenol	1	mg/kg	-	< 1	-	-
2.4.6-Trichlorophenol	1	mg/kg	-	< 1	-	-
2.6-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
4-Chloro-3-methylphenol	1	mg/kg	-	< 1	-	-
Pentachlorophenol	1	mg/kg	-	< 1	-	-
Tetrachlorophenols - Total	10	mg/kg	-	< 10	-	-
Total Halogenated Phenol*	1	mg/kg	-	< 1	-	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	< 20	-	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	< 5	-	-
2-Nitrophenol	1	mg/kg	-	< 1	-	-
2.4-Dimethylphenol	0.5	mg/kg	-	< 0.5	-	-
2.4-Dinitrophenol	5	mg/kg	-	< 5	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	< 0.2	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	< 0.4	-	-
Total cresols*	0.5	mg/kg	-	< 0.5	-	-
4-Nitrophenol	5	mg/kg	-	< 5	-	-
Dinoseb	20	mg/kg	-	< 20	-	-
Phenol	0.5	mg/kg	-	< 0.5	-	-
Phenol-d6 (surr.)	1	%	-	85	-	-
Total Non-Halogenated Phenol*	20	mg/kg	-	< 20	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	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	-	-
Metals M8						
Arsenic	2	mg/kg	-	3.7	-	-
Cadmium	0.4	mg/kg	-	< 0.4	-	-
Chromium	5	mg/kg	-	53	-	-
Copper	5	mg/kg	-	9.9	-	-
Lead	5	mg/kg	-	13	-	-
Mercury	0.1	mg/kg	-	< 0.1	-	-
Nickel	5	mg/kg	-	6.9	-	-
Zinc	5	mg/kg	-	18	-	-
% Moisture	1	%	13	13	15	17

Client Sample ID			BH106 - 0.3	BH106 - 0.5	BH107 - 0.1	BH107 - 0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R23-Ja0040753	R23-Ja0040754	R23-Ja0040755	R23-Ja0040756
Date Sampled			Jan 25, 2023	Jan 25, 2023	Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit				
Per- and Polyfluoroalkyl Substances (PFASs) - Short						
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
13C2-6:2 FTSA (surr.)	1	%	86	94	95	94
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	[N09]20	8.5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	< 5	[N09]170	54
18O2-PFHxS (surr.)	1	%	99	118	113	100
13C8-PFOS (surr.)	1	%	99	123	91	94
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C8-PFOA (surr.)	1	%	88	133	104	92
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	190	62.5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	170	54
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	190	62.5

Client Sample ID			BH107 - 0.5	BH108 - 0.1	BH108 - 0.3	BH108 - 0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R23-Ja0040757	R23-Ja0040758	R23-Ja0040759	R23-Ja0040760
Date Sampled			Jan 25, 2023	Jan 25, 2023	Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	-	-
TRH C10-C14	20	mg/kg	-	< 20	-	-
TRH C15-C28	50	mg/kg	-	160	-	-
TRH C29-C36	50	mg/kg	-	89	-	-
TRH C10-C36 (Total)	50	mg/kg	-	249	-	-
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	%	-	63	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	-
TRH C6-C10	20	mg/kg	-	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	-
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	-	-

Client Sample ID			BH107 - 0.5	BH108 - 0.1	BH108 - 0.3	BH108 - 0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R23-Ja0040757	R23-Ja0040758	R23-Ja0040759	R23-Ja0040760
Date Sampled			Jan 25, 2023	Jan 25, 2023	Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Chrysene	0.5	mg/kg	-	< 0.5	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	-
Fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Fluorene	0.5	mg/kg	-	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	-
Naphthalene	0.5	mg/kg	-	< 0.5	-	-
Phenanthrene	0.5	mg/kg	-	< 0.5	-	-
Pyrene	0.5	mg/kg	-	< 0.5	-	-
Total PAH*	0.5	mg/kg	-	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	-	123	-	-
p-Terphenyl-d14 (surr.)	1	%	-	132	-	-
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	%	-	[Q09]INT	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	109	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-

Client Sample ID			BH107 - 0.5	BH108 - 0.1	BH108 - 0.3	BH108 - 0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R23-Ja0040757	R23-Ja0040758	R23-Ja0040759	R23-Ja0040760
Date Sampled			Jan 25, 2023	Jan 25, 2023	Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Dibutylchlorendate (surr.)	1	%	-	[Q09]INT	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	109	-	-
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	< 0.5	-	-
2.4-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
2.4.5-Trichlorophenol	1	mg/kg	-	< 1	-	-
2.4.6-Trichlorophenol	1	mg/kg	-	< 1	-	-
2.6-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
4-Chloro-3-methylphenol	1	mg/kg	-	< 1	-	-
Pentachlorophenol	1	mg/kg	-	< 1	-	-
Tetrachlorophenols - Total	10	mg/kg	-	< 10	-	-
Total Halogenated Phenol*	1	mg/kg	-	< 1	-	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	< 20	-	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	< 5	-	-
2-Nitrophenol	1	mg/kg	-	< 1	-	-
2.4-Dimethylphenol	0.5	mg/kg	-	< 0.5	-	-
2.4-Dinitrophenol	5	mg/kg	-	< 5	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	< 0.2	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	< 0.4	-	-
Total cresols*	0.5	mg/kg	-	< 0.5	-	-
4-Nitrophenol	5	mg/kg	-	< 5	-	-
Dinoseb	20	mg/kg	-	< 20	-	-
Phenol	0.5	mg/kg	-	< 0.5	-	-
Phenol-d6 (surr.)	1	%	-	106	-	-
Total Non-Halogenated Phenol*	20	mg/kg	-	< 20	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	-	< 50	-	-
TRH >C16-C34	100	mg/kg	-	220	-	-
TRH >C34-C40	100	mg/kg	-	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	-	220	-	-
Metals M8						
Arsenic	2	mg/kg	-	2.4	-	-
Cadmium	0.4	mg/kg	-	< 0.4	-	-
Chromium	5	mg/kg	-	24	-	-
Copper	5	mg/kg	-	9.7	-	-
Lead	5	mg/kg	-	14	-	-
Mercury	0.1	mg/kg	-	< 0.1	-	-
Nickel	5	mg/kg	-	6.8	-	-
Zinc	5	mg/kg	-	29	-	-
% Moisture	1	%	19	16	10	11
Per- and Polyfluoroalkyl Substances (PFASs) - Short						
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
13C2-6:2 FTSA (surr.)	1	%	95	102	96	113
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	45	< 5	7.2	< 5
18O2-PFHxS (surr.)	1	%	98	120	102	133

Client Sample ID			BH107 - 0.5	BH108 - 0.1	BH108 - 0.3	BH108 - 0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R23-Ja0040757	R23-Ja0040758	R23-Ja0040759	R23-Ja0040760
Date Sampled			Jan 25, 2023	Jan 25, 2023	Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit				
Per- and Polyfluoroalkyl Substances (PFASs) - Short						
13C8-PFOS (surr.)	1	%	92	127	97	130
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C8-PFOA (surr.)	1	%	96	138	96	126
Sum (PFHxS + PFOS)*	5	ug/kg	45	< 5	7.2	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	45	< 5	7.2	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	45	< 5	7.2	< 5

Client Sample ID			BH109 - 0.1	BH109 - 0.3	BH109 - 0.5	BH110 - 0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R23-Ja0040761	R23-Ja0040762	R23-Ja0040763	R23-Ja0040764
Date Sampled			Jan 25, 2023	Jan 25, 2023	Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	-
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	%	-	-	78	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	< 0.5	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	< 50	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	< 20	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	-
Acenaphthene	0.5	mg/kg	-	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	-
Anthracene	0.5	mg/kg	-	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Chrysene	0.5	mg/kg	-	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5	-
Fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Fluorene	0.5	mg/kg	-	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			BH109 - 0.1	BH109 - 0.3	BH109 - 0.5	BH110 - 0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R23-Ja0040761	R23-Ja0040762	R23-Ja0040763	R23-Ja0040764
Date Sampled			Jan 25, 2023	Jan 25, 2023	Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Naphthalene	0.5	mg/kg	-	-	< 0.5	-
Phenanthrene	0.5	mg/kg	-	-	< 0.5	-
Pyrene	0.5	mg/kg	-	-	< 0.5	-
Total PAH*	0.5	mg/kg	-	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	-	110	-
p-Terphenyl-d14 (surr.)	1	%	-	-	126	-
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	%	-	-	149	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	105	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	-
Total PCB*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	149	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	105	-

Client Sample ID			BH109 - 0.1	BH109 - 0.3	BH109 - 0.5	BH110 - 0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R23-Ja0040761	R23-Ja0040762	R23-Ja0040763	R23-Ja0040764
Date Sampled			Jan 25, 2023	Jan 25, 2023	Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit				
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	-	< 0.5	-
2.4-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	-
2.4.5-Trichlorophenol	1	mg/kg	-	-	< 1	-
2.4.6-Trichlorophenol	1	mg/kg	-	-	< 1	-
2.6-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	-
4-Chloro-3-methylphenol	1	mg/kg	-	-	< 1	-
Pentachlorophenol	1	mg/kg	-	-	< 1	-
Tetrachlorophenols - Total	10	mg/kg	-	-	< 10	-
Total Halogenated Phenol*	1	mg/kg	-	-	< 1	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	-	< 20	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	-	< 5	-
2-Nitrophenol	1	mg/kg	-	-	< 1	-
2.4-Dimethylphenol	0.5	mg/kg	-	-	< 0.5	-
2.4-Dinitrophenol	5	mg/kg	-	-	< 5	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	< 0.2	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	< 0.4	-
Total cresols*	0.5	mg/kg	-	-	< 0.5	-
4-Nitrophenol	5	mg/kg	-	-	< 5	-
Dinoseb	20	mg/kg	-	-	< 20	-
Phenol	0.5	mg/kg	-	-	< 0.5	-
Phenol-d6 (surr.)	1	%	-	-	97	-
Total Non-Halogenated Phenol*	20	mg/kg	-	-	< 20	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	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	-
Metals M8						
Arsenic	2	mg/kg	-	-	5.8	-
Cadmium	0.4	mg/kg	-	-	< 0.4	-
Chromium	5	mg/kg	-	-	44	-
Copper	5	mg/kg	-	-	13	-
Lead	5	mg/kg	-	-	14	-
Mercury	0.1	mg/kg	-	-	< 0.1	-
Nickel	5	mg/kg	-	-	7.5	-
Zinc	5	mg/kg	-	-	20	-
% Moisture	1	%	11	11	13	11
Per- and Polyfluoroalkyl Substances (PFASs) - Short						
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
13C2-6:2 FTSA (surr.)	1	%	93	91	104	92
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
18O2-PFHxS (surr.)	1	%	119	102	121	101
13C8-PFOS (surr.)	1	%	128	98	125	101
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C8-PFOA (surr.)	1	%	139	95	130	96

Client Sample ID			BH109 - 0.1	BH109 - 0.3	BH109 - 0.5	BH110 - 0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R23-Ja0040761	R23-Ja0040762	R23-Ja0040763	R23-Ja0040764
Date Sampled			Jan 25, 2023	Jan 25, 2023	Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit				
Per- and Polyfluoroalkyl Substances (PFASs) - Short						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	< 5

Client Sample ID			BH111 - 0.1	BH112 - 0.1	BH113 - 0.1	BH114 - 0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R23-Ja0040765	R23-Ja0040766	R23-Ja0040767	R23-Ja0040768
Date Sampled			Jan 25, 2023	Jan 25, 2023	Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
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	-	-
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	%	-	109	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	-
TRH C6-C10	20	mg/kg	-	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	-
Acenaphthene	0.5	mg/kg	-	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	-
Anthracene	0.5	mg/kg	-	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Chrysene	0.5	mg/kg	-	< 0.5	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	-
Fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Fluorene	0.5	mg/kg	-	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	-
Naphthalene	0.5	mg/kg	-	< 0.5	-	-
Phenanthrene	0.5	mg/kg	-	< 0.5	-	-
Pyrene	0.5	mg/kg	-	< 0.5	-	-

Client Sample ID			BH111 - 0.1	BH112 - 0.1	BH113 - 0.1	BH114 - 0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R23-Ja0040765	R23-Ja0040766	R23-Ja0040767	R23-Ja0040768
Date Sampled			Jan 25, 2023	Jan 25, 2023	Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Total PAH*	0.5	mg/kg	-	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	-	122	-	-
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	%	-	107	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	127	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	107	-	-
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	< 0.5	-	-
2.4-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
2.4.5-Trichlorophenol	1	mg/kg	-	< 1	-	-
2.4.6-Trichlorophenol	1	mg/kg	-	< 1	-	-
2.6-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
4-Chloro-3-methylphenol	1	mg/kg	-	< 1	-	-

Client Sample ID			BH111 - 0.1	BH112 - 0.1	BH113 - 0.1	BH114 - 0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R23-Ja0040765	R23-Ja0040766	R23-Ja0040767	R23-Ja0040768
Date Sampled			Jan 25, 2023	Jan 25, 2023	Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit				
Phenols (Halogenated)						
Pentachlorophenol	1	mg/kg	-	< 1	-	-
Tetrachlorophenols - Total	10	mg/kg	-	< 10	-	-
Total Halogenated Phenol*	1	mg/kg	-	< 1	-	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	< 20	-	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	< 5	-	-
2-Nitrophenol	1	mg/kg	-	< 1	-	-
2.4-Dimethylphenol	0.5	mg/kg	-	< 0.5	-	-
2.4-Dinitrophenol	5	mg/kg	-	< 5	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	< 0.2	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	< 0.4	-	-
Total cresols*	0.5	mg/kg	-	< 0.5	-	-
4-Nitrophenol	5	mg/kg	-	< 5	-	-
Dinoseb	20	mg/kg	-	< 20	-	-
Phenol	0.5	mg/kg	-	< 0.5	-	-
Phenol-d6 (surr.)	1	%	-	102	-	-
Total Non-Halogenated Phenol*	20	mg/kg	-	< 20	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	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	-	-
Metals M8						
Arsenic	2	mg/kg	-	4.7	-	-
Cadmium	0.4	mg/kg	-	< 0.4	-	-
Chromium	5	mg/kg	-	39	-	-
Copper	5	mg/kg	-	9.8	-	-
Lead	5	mg/kg	-	21	-	-
Mercury	0.1	mg/kg	-	< 0.1	-	-
Nickel	5	mg/kg	-	9.3	-	-
Zinc	5	mg/kg	-	28	-	-
% Moisture	1	%	5.9	12	10	13
Per- and Polyfluoroalkyl Substances (PFASs) - Short						
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
13C2-6:2 FTSA (surr.)	1	%	103	148	99	114
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	16	33	15	53
18O2-PFHxS (surr.)	1	%	103	109	99	109
13C8-PFOS (surr.)	1	%	99	111	98	97
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C8-PFOA (surr.)	1	%	97	118	94	112
Sum (PFHxS + PFOS)*	5	ug/kg	16	33	15	53
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	16	33	15	53
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	16	33	15	53

Client Sample ID			BH115 - 0.1	BH116 - 0.1	BH117 - 0.1	QC202
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R23-Ja0040769	R23-Ja0040770	R23-Ja0040771	R23-Ja0040772
Date Sampled			Jan 25, 2023	Jan 25, 2023	Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	-	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	-	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	-	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	82	-	52	96
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	-	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	117	-	115	113
p-Terphenyl-d14 (surr.)	1	%	125	-	123	124
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05

Client Sample ID			BH115 - 0.1	BH116 - 0.1	BH117 - 0.1	QC202
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R23-Ja0040769	R23-Ja0040770	R23-Ja0040771	R23-Ja0040772
Date Sampled			Jan 25, 2023	Jan 25, 2023	Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
d-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	[Q09]INT	-	147	[Q09]INT
Tetrachloro-m-xylene (surr.)	1	%	107	-	105	104
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	[Q09]INT	-	147	[Q09]INT
Tetrachloro-m-xylene (surr.)	1	%	107	-	105	104
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	< 1	-	< 1	< 1
2.4.6-Trichlorophenol	1	mg/kg	< 1	-	< 1	< 1
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	-	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	-	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	-	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	-	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	-	< 20	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	-	< 5	< 5
2-Nitrophenol	1	mg/kg	< 1	-	< 1	< 1
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2.4-Dinitrophenol	5	mg/kg	< 5	-	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4

Client Sample ID			BH115 - 0.1	BH116 - 0.1	BH117 - 0.1	QC202
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			R23-Ja0040769	R23-Ja0040770	R23-Ja0040771	R23-Ja0040772
Date Sampled			Jan 25, 2023	Jan 25, 2023	Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit				
Phenols (non-Halogenated)						
Total cresols*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Nitrophenol	5	mg/kg	< 5	-	< 5	< 5
Dinoseb	20	mg/kg	< 20	-	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	106	-	103	104
Total Non-Halogenated Phenol*	20	mg/kg	< 20	-	< 20	< 20
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	-	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	-	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	< 100
Metals M8						
Arsenic	2	mg/kg	3.3	-	2.1	5.6
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	49	-	27	58
Copper	5	mg/kg	29	-	8.4	18
Lead	5	mg/kg	14	-	14	23
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	6.8	-	8.2	19
Zinc	5	mg/kg	28	-	40	36
% Moisture	1	%	7.4	11	12	12
Per- and Polyfluoroalkyl Substances (PFASs) - Short						
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
13C2-6:2 FTSA (surr.)	1	%	104	129	96	82
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	5.3	6.5	6.2	< 5
18O2-PFHxS (surr.)	1	%	104	113	103	104
13C8-PFOS (surr.)	1	%	101	109	97	96
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C8-PFOA (surr.)	1	%	96	122	94	93
Sum (PFHxS + PFOS)*	5	ug/kg	5.3	6.5	6.2	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	5.3	6.5	6.2	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	5.3	6.5	6.2	< 5

Client Sample ID			QC203	QC204
Sample Matrix			Soil	Soil
Eurofins Sample No.			R23-Ja0040773	R23-Ja0040774
Date Sampled			Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				
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	-

Client Sample ID			QC203	QC204
Sample Matrix			Soil	Soil
Eurofins Sample No.			R23-Ja0040773	R23-Ja0040774
Date Sampled			Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit		
BTEX				
Benzene	0.1	mg/kg	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	96	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene[N02]	0.5	mg/kg	< 0.5	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-
TRH C6-C10	20	mg/kg	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-
Polycyclic Aromatic Hydrocarbons				
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	122	-
p-Terphenyl-d14 (surr.)	1	%	139	-
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	-

Client Sample ID			QC203	QC204
Sample Matrix			Soil	Soil
Eurofins Sample No.			R23-Ja0040773	R23-Ja0040774
Date Sampled			Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit		
Organochlorine Pesticides				
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	%	131	-
Tetrachloro-m-xylene (surr.)	1	%	107	-
Polychlorinated Biphenyls				
Aroclor-1016	0.1	mg/kg	< 0.1	-
Aroclor-1221	0.1	mg/kg	< 0.1	-
Aroclor-1232	0.1	mg/kg	< 0.1	-
Aroclor-1242	0.1	mg/kg	< 0.1	-
Aroclor-1248	0.1	mg/kg	< 0.1	-
Aroclor-1254	0.1	mg/kg	< 0.1	-
Aroclor-1260	0.1	mg/kg	< 0.1	-
Total PCB*	0.1	mg/kg	< 0.1	-
Dibutylchlorendate (surr.)	1	%	131	-
Tetrachloro-m-xylene (surr.)	1	%	107	-
Phenols (Halogenated)				
2-Chlorophenol	0.5	mg/kg	< 0.5	-
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	-
2.4.5-Trichlorophenol	1	mg/kg	< 1	-
2.4.6-Trichlorophenol	1	mg/kg	< 1	-
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	-
4-Chloro-3-methylphenol	1	mg/kg	< 1	-
Pentachlorophenol	1	mg/kg	< 1	-
Tetrachlorophenols - Total	10	mg/kg	< 10	-
Total Halogenated Phenol*	1	mg/kg	< 1	-
Phenols (non-Halogenated)				
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	-
2-Nitrophenol	1	mg/kg	< 1	-
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	-
2.4-Dinitrophenol	5	mg/kg	< 5	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	-
Total cresols*	0.5	mg/kg	< 0.5	-
4-Nitrophenol	5	mg/kg	< 5	-
Dinoseb	20	mg/kg	< 20	-
Phenol	0.5	mg/kg	< 0.5	-
Phenol-d6 (surr.)	1	%	97	-
Total Non-Halogenated Phenol*	20	mg/kg	< 20	-

Client Sample ID			QC203	QC204
Sample Matrix			Soil	Soil
Eurofins Sample No.			R23-Ja0040773	R23-Ja0040774
Date Sampled			Jan 25, 2023	Jan 25, 2023
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
TRH >C10-C16	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	-
Metals M8				
Arsenic	2	mg/kg	4.7	-
Cadmium	0.4	mg/kg	< 0.4	-
Chromium	5	mg/kg	66	-
Copper	5	mg/kg	10	-
Lead	5	mg/kg	15	-
Mercury	0.1	mg/kg	< 0.1	-
Nickel	5	mg/kg	7.3	-
Zinc	5	mg/kg	18	-
% Moisture	1	%	13	12
Per- and Polyfluoroalkyl Substances (PFASs) - Short				
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	-	< 10
13C2-6:2 FTSA (surr.)	1	%	-	123
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	5.1
18O2-PFHxS (surr.)	1	%	-	106
13C8-PFOS (surr.)	1	%	-	101
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	< 5
13C8-PFOA (surr.)	1	%	-	104
Sum (PFHxS + PFOS)*	5	ug/kg	-	5.1
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	5.1
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	5.1

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	Feb 02, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Feb 02, 2023	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Feb 02, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Feb 02, 2023	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Phenols (Halogenated)	Sydney	Feb 02, 2023	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Phenols (non-Halogenated)	Sydney	Feb 02, 2023	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Feb 02, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Metals M8	Sydney	Feb 02, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Organochlorine Pesticides	Sydney	Feb 02, 2023	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Feb 02, 2023	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
% Moisture	Sydney	Jan 27, 2023	14 Days
- Method: LTM-GEN-7080 Moisture			
Per- and Polyfluoroalkyl Substances (PFASs) - Short	Brisbane	Feb 13, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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Project Name: FAIRBAIRN

Order No.:
Report #: 958625
Phone: 0419 170 791
Fax:

Received: Jan 27, 2023 11:06 AM
Due: Feb 3, 2023
Priority: 5 Day
Contact Name: John O Brien - ACT Manager

Eurofins Analytical Services Manager : Quinn Raw

Sample Detail						AUS Leaching Procedure	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7A	Per- and Polyfluoroalkyl Substances (PFASs) - Short	Per- and Polyfluoroalkyl Substances (PFASs) - Short
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X				X	X
External Laboratory											
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
1	BH101 - 0.1	Jan 25, 2023		Soil	R23-Ja0040737		X	X	X	X	
2	BH101 - 0.3	Jan 25, 2023		Soil	R23-Ja0040738			X		X	
3	BH101 - 0.5	Jan 25, 2023		Soil	R23-Ja0040739			X			X
4	BH102 - 0.1	Jan 25, 2023		Soil	R23-Ja0040740			X		X	
5	BH102 - 0.3	Jan 25, 2023		Soil	R23-Ja0040741		X	X	X	X	
6	BH102 - 0.5	Jan 25, 2023		Soil	R23-Ja0040742			X			X
7	BH103 - 0.1	Jan 25, 2023		Soil	R23-Ja0040743			X			X
8	BH103 - 0.3	Jan 25, 2023		Soil	R23-Ja0040744			X		X	
9	BH103 - 0.5	Jan 25, 2023		Soil	R23-Ja0040745		X	X	X	X	
10	BH104 - 0.1	Jan 25, 2023		Soil	R23-Ja0040746			X		X	
11	BH104 - 0.3	Jan 25, 2023		Soil	R23-Ja0040747			X			X
12	BH104 - 0.5	Jan 25, 2023		Soil	R23-Ja0040748		X	X	X	X	
13	BH105 - 0.1	Jan 25, 2023		Soil	R23-Ja0040749			X		X	

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Project Name: FAIRBAIRN

Order No.:
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Contact Name: John O Brien - ACT Manager

Eurofins Analytical Services Manager : Quinn Raw

Sample Detail						AUS Leaching Procedure	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7A	Per- and Polyfluoroalkyl Substances (PFASs) - Short	Per- and Polyfluoroalkyl Substances (PFASs) - Short
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X				X	X
14	BH105 - 0.3	Jan 25, 2023		Soil	R23-Ja0040750		X	X	X		X
15	BH105 - 0.5	Jan 25, 2023		Soil	R23-Ja0040751			X		X	
16	BH106 - 0.1	Jan 25, 2023		Soil	R23-Ja0040752			X		X	
17	BH106 - 0.3	Jan 25, 2023		Soil	R23-Ja0040753			X			X
18	BH106 - 0.5	Jan 25, 2023		Soil	R23-Ja0040754		X	X	X	X	
19	BH107 - 0.1	Jan 25, 2023		Soil	R23-Ja0040755			X		X	
20	BH107 - 0.3	Jan 25, 2023		Soil	R23-Ja0040756			X			X
21	BH107 - 0.5	Jan 25, 2023		Soil	R23-Ja0040757			X			X
22	BH108 - 0.1	Jan 25, 2023		Soil	R23-Ja0040758		X	X	X	X	
23	BH108 - 0.3	Jan 25, 2023		Soil	R23-Ja0040759			X			X
24	BH108 - 0.5	Jan 25, 2023		Soil	R23-Ja0040760			X		X	
25	BH109 - 0.1	Jan 25, 2023		Soil	R23-Ja0040761			X		X	
26	BH109 - 0.3	Jan 25, 2023		Soil	R23-Ja0040762			X			X
27	BH109 - 0.5	Jan 25, 2023		Soil	R23-Ja0040763		X	X	X	X	
28	BH110 - 0.1	Jan 25, 2023		Soil	R23-Ja0040764			X			X

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Company Name: Agon Environmental Pty Ltd - ACT
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ACT 2060

Project Name: FAIRBAIRN

Order No.:
Report #: 958625
Phone: 0419 170 791
Fax:

Received: Jan 27, 2023 11:06 AM
Due: Feb 3, 2023
Priority: 5 Day
Contact Name: John O Brien - ACT Manager

Eurofins Analytical Services Manager : Quinn Raw

Sample Detail						AUS Leaching Procedure	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7A	Per- and Polyfluoroalkyl Substances (PFASs) - Short	Per- and Polyfluoroalkyl Substances (PFASs) - Short
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X				X	X
29	BH111 - 0.1	Jan 25, 2023		Soil	R23-Ja0040765			X			X
30	BH112 - 0.1	Jan 25, 2023		Soil	R23-Ja0040766		X	X	X	X	
31	BH113 - 0.1	Jan 25, 2023		Soil	R23-Ja0040767			X			X
32	BH114 - 0.1	Jan 25, 2023		Soil	R23-Ja0040768			X		X	
33	BH115 - 0.1	Jan 25, 2023		Soil	R23-Ja0040769		X	X	X		X
34	BH116 - 0.1	Jan 25, 2023		Soil	R23-Ja0040770			X		X	
35	BH117 - 0.1	Jan 25, 2023		Soil	R23-Ja0040771		X	X	X		X
36	QC202	Jan 25, 2023		Soil	R23-Ja0040772		X	X	X		X
37	QC203	Jan 25, 2023		Soil	R23-Ja0040773		X	X	X		
38	QC204	Jan 25, 2023		Soil	R23-Ja0040774			X			X
39	RB01	Jan 25, 2023		Water	R23-Ja0040775						X
40	BH101 - 0.1 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040776	X				X	
41	BH101 - 0.3 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040777	X				X	
42	BH102 - 0.1	Jan 25, 2023		AUS Leachate	R23-Ja0040778	X				X	

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NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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Project Name: FAIRBAIRN

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Sample Detail						AUS Leaching Procedure	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7A	Per- and Polyfluoroalkyl Substances (PFASs) - Short	Per- and Polyfluoroalkyl Substances (PFASs) - Short
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X				X	X
	(ASLP)										
43	BH102 - 0.3 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040779	X				X	
44	BH103 - 0.3 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040780	X				X	
45	BH103 - 0.5 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040781	X				X	
46	BH104 - 0.1 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040782	X				X	
47	BH104 - 0.5 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040783	X				X	
48	BH105 - 0.1 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040784	X				X	
49	BH105 - 0.5 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040785	X				X	
50	BH106 - 0.1 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040786	X				X	
51	BH106 - 0.5	Jan 25, 2023		AUS Leachate	R23-Ja0040787	X				X	

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NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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Sample Detail						AUS Leaching Procedure	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7A	Per- and Polyfluoroalkyl Substances (PFASs) - Short	Per- and Polyfluoroalkyl Substances (PFASs) - Short
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X				X	X
	(ASLP)										
52	BH107 - 0.1 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040789	X				X	
53	BH108 - 0.1 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040790	X				X	
54	BH108 - 0.5 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040791	X				X	
55	BH109 - 0.1 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040792	X				X	
56	BH109 - 0.5 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040793	X				X	
57	BH112 - 0.1 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040794	X				X	
58	BH114 - 0.1 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040795	X				X	
59	BH116 - 0.1 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040796	X				X	
Test Counts						20	13	38	13	58	58

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

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

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

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

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	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	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Phenols (Halogenated)							
2-Chlorophenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
2.4.5-Trichlorophenol	mg/kg	< 1			1	Pass	
2.4.6-Trichlorophenol	mg/kg	< 1			1	Pass	
2.6-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	< 1			1	Pass	
Pentachlorophenol	mg/kg	< 1			1	Pass	
Tetrachlorophenols - Total	mg/kg	< 10			10	Pass	
Method Blank							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	mg/kg	< 20			20	Pass	
2-Methyl-4.6-dinitrophenol	mg/kg	< 5			5	Pass	
2-Nitrophenol	mg/kg	< 1			1	Pass	
2.4-Dimethylphenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dinitrophenol	mg/kg	< 5			5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.2			0.2	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 0.4			0.4	Pass	
4-Nitrophenol	mg/kg	< 5			5	Pass	
Dinoseb	mg/kg	< 20			20	Pass	
Total Non-Halogenated Phenol*	mg/kg	< 0			20	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
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							
Metals M8							
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
Method Blank							
Per- and Polyfluoroalkyl Substances (PFASs) - Short							
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/kg	< 10			10	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Sum of US EPA PFAS (PFOS + PFOA)*	ug/kg	-			5	N/A	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	98			70-130	Pass	
TRH C10-C14	%	77			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	99			70-130	Pass	
Toluene	%	99			70-130	Pass	
Ethylbenzene	%	104			70-130	Pass	
m&p-Xylenes	%	95			70-130	Pass	
o-Xylene	%	89			70-130	Pass	
Xylenes - Total*	%	93			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	85			70-130	Pass	
TRH C6-C10	%	95			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	99			70-130	Pass	
Acenaphthylene	%	97			70-130	Pass	
Anthracene	%	97			70-130	Pass	
Benz(a)anthracene	%	92			70-130	Pass	
Benzo(a)pyrene	%	99			70-130	Pass	
Benzo(b&j)fluoranthene	%	97			70-130	Pass	
Benzo(g.h.i)perylene	%	88			70-130	Pass	
Benzo(k)fluoranthene	%	99			70-130	Pass	
Chrysene	%	104			70-130	Pass	
Dibenz(a.h)anthracene	%	83			70-130	Pass	
Fluoranthene	%	97			70-130	Pass	
Fluorene	%	96			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	85			70-130	Pass	
Naphthalene	%	95			70-130	Pass	
Phenanthrene	%	90			70-130	Pass	
Pyrene	%	98			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	90			70-130	Pass	
4.4'-DDD	%	103			70-130	Pass	
4.4'-DDE	%	95			70-130	Pass	
4.4'-DDT	%	99			70-130	Pass	
a-HCH	%	91			70-130	Pass	
Aldrin	%	94			70-130	Pass	
b-HCH	%	91			70-130	Pass	
d-HCH	%	88			70-130	Pass	
Dieldrin	%	93			70-130	Pass	
Endosulfan I	%	88			70-130	Pass	
Endosulfan II	%	97			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan sulphate	%	105			70-130	Pass	
Endrin	%	90			70-130	Pass	
Endrin aldehyde	%	83			70-130	Pass	
Endrin ketone	%	100			70-130	Pass	
g-HCH (Lindane)	%	96			70-130	Pass	
Heptachlor	%	98			70-130	Pass	
Heptachlor epoxide	%	94			70-130	Pass	
Hexachlorobenzene	%	89			70-130	Pass	
Methoxychlor	%	103			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	85			70-130	Pass	
Aroclor-1260	%	78			70-130	Pass	
LCS - % Recovery							
Phenols (Halogenated)							
2-Chlorophenol	%	96			25-140	Pass	
2.4-Dichlorophenol	%	101			25-140	Pass	
2.4.5-Trichlorophenol	%	86			25-140	Pass	
2.4.6-Trichlorophenol	%	77			25-140	Pass	
2.6-Dichlorophenol	%	101			25-140	Pass	
4-Chloro-3-methylphenol	%	94			25-140	Pass	
Pentachlorophenol	%	74			25-140	Pass	
Tetrachlorophenols - Total	%	76			25-140	Pass	
LCS - % Recovery							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	%	112			25-140	Pass	
2-Methyl-4.6-dinitrophenol	%	100			25-140	Pass	
2-Nitrophenol	%	118			25-140	Pass	
2.4-Dimethylphenol	%	98			25-140	Pass	
2.4-Dinitrophenol	%	82			25-140	Pass	
2-Methylphenol (o-Cresol)	%	92			25-140	Pass	
3&4-Methylphenol (m&p-Cresol)	%	90			25-140	Pass	
4-Nitrophenol	%	88			25-140	Pass	
Dinoseb	%	104			25-140	Pass	
Phenol	%	89			25-140	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH >C10-C16	%	71			70-130	Pass	
LCS - % Recovery							
Metals M8							
Arsenic	%	112			80-120	Pass	
Cadmium	%	104			80-120	Pass	
Chromium	%	99			80-120	Pass	
Copper	%	98			80-120	Pass	
Lead	%	99			80-120	Pass	
Mercury	%	97			80-120	Pass	
Nickel	%	97			80-120	Pass	
Zinc	%	100			80-120	Pass	
LCS - % Recovery							
Per- and Polyfluoroalkyl Substances (PFASs) - Short							
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	107			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	102			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	101			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	111			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S23-Fe0002482	NCP	%	78			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	R23-Ja0033935	NCP	%	107			70-130	Pass	
Acenaphthylene	R23-Ja0033935	NCP	%	108			70-130	Pass	
Anthracene	R23-Ja0033935	NCP	%	106			70-130	Pass	
Benz(a)anthracene	R23-Ja0033935	NCP	%	103			70-130	Pass	
Benzo(a)pyrene	R23-Ja0033935	NCP	%	109			70-130	Pass	
Benzo(b&j)fluoranthene	R23-Ja0033935	NCP	%	104			70-130	Pass	
Benzo(g.h.i)perylene	R23-Ja0033935	NCP	%	102			70-130	Pass	
Benzo(k)fluoranthene	R23-Ja0033935	NCP	%	114			70-130	Pass	
Chrysene	R23-Ja0033935	NCP	%	116			70-130	Pass	
Dibenz(a.h)anthracene	R23-Ja0033935	NCP	%	100			70-130	Pass	
Fluoranthene	R23-Ja0033935	NCP	%	108			70-130	Pass	
Fluorene	R23-Ja0033935	NCP	%	105			70-130	Pass	
Indeno(1.2.3-cd)pyrene	R23-Ja0033935	NCP	%	104			70-130	Pass	
Naphthalene	R23-Ja0033935	NCP	%	104			70-130	Pass	
Phenanthrene	R23-Ja0033935	NCP	%	104			70-130	Pass	
Pyrene	R23-Ja0033935	NCP	%	108			70-130	Pass	
Spike - % Recovery									
Phenols (Halogenated)				Result 1					
2-Chlorophenol	R23-Ja0033935	NCP	%	84			30-130	Pass	
2.4-Dichlorophenol	R23-Ja0033935	NCP	%	108			30-130	Pass	
2.4.5-Trichlorophenol	R23-Ja0033935	NCP	%	88			30-130	Pass	
2.4.6-Trichlorophenol	R23-Ja0033935	NCP	%	102			30-130	Pass	
2.6-Dichlorophenol	R23-Ja0033935	NCP	%	113			30-130	Pass	
4-Chloro-3-methylphenol	R23-Ja0033935	NCP	%	105			30-130	Pass	
Pentachlorophenol	R23-Ja0033935	NCP	%	72			30-130	Pass	
Tetrachlorophenols - Total	R23-Ja0033935	NCP	%	108			30-130	Pass	
Spike - % Recovery									
Phenols (non-Halogenated)				Result 1					
2-Cyclohexyl-4.6-dinitrophenol	R23-Ja0033935	NCP	%	110			30-130	Pass	
2-Methyl-4.6-dinitrophenol	R23-Ja0033935	NCP	%	89			30-130	Pass	
2-Nitrophenol	R23-Ja0033935	NCP	%	121			30-130	Pass	
2.4-Dimethylphenol	R23-Ja0033935	NCP	%	108			30-130	Pass	
2.4-Dinitrophenol	R23-Ja0033935	NCP	%	82			70-130	Pass	
2-Methylphenol (o-Cresol)	R23-Ja0033935	NCP	%	103			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	R23-Ja0033935	NCP	%	99			30-130	Pass	
4-Nitrophenol	R23-Ja0033935	NCP	%	89			30-130	Pass	
Dinoseb	R23-Ja0033935	NCP	%	94			30-130	Pass	
Phenol	R23-Ja0033935	NCP	%	89			30-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S23-Fe0002482	NCP	%	73			70-130	Pass	
Spike - % Recovery									
Metals M8				Result 1					
Arsenic	N23-Ja0037322	NCP	%	116			75-125	Pass	
Cadmium	N23-Ja0037322	NCP	%	113			75-125	Pass	
Chromium	N23-Ja0037322	NCP	%	116			75-125	Pass	
Copper	N23-Ja0037322	NCP	%	114			75-125	Pass	
Lead	N23-Ja0037322	NCP	%	109			75-125	Pass	
Mercury	N23-Ja0037322	NCP	%	120			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Nickel	N23-Ja0037322	NCP	%	120			75-125	Pass	
Zinc	N23-Ja0037307	NCP	%	120			75-125	Pass	
Spike - % Recovery									
Per- and Polyfluoroalkyl Substances (PFASs) - Short				Result 1					
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	R23-Ja0040737	CP	%	88			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	R23-Ja0040737	CP	%	100			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	R23-Ja0040737	CP	%	90			50-150	Pass	
Perfluorooctanoic acid (PFOA)	R23-Ja0040737	CP	%	89			50-150	Pass	
Spike - % Recovery									
Per- and Polyfluoroalkyl Substances (PFASs) - Short				Result 1					
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	R23-Ja0040742	CP	%	97			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	R23-Ja0040742	CP	%	92			50-150	Pass	
Perfluorooctanoic acid (PFOA)	R23-Ja0040742	CP	%	100			50-150	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	R23-Ja0040748	CP	%	107			70-130	Pass	
4.4'-DDD	R23-Ja0040748	CP	%	107			70-130	Pass	
4.4'-DDE	R23-Ja0040748	CP	%	105			70-130	Pass	
4.4'-DDT	R23-Ja0040748	CP	%	108			70-130	Pass	
a-HCH	R23-Ja0040748	CP	%	105			70-130	Pass	
Aldrin	R23-Ja0040748	CP	%	108			70-130	Pass	
b-HCH	R23-Ja0040748	CP	%	98			70-130	Pass	
d-HCH	R23-Ja0040748	CP	%	99			70-130	Pass	
Dieldrin	R23-Ja0040748	CP	%	105			70-130	Pass	
Endosulfan I	R23-Ja0040748	CP	%	112			70-130	Pass	
Endosulfan II	R23-Ja0040748	CP	%	107			70-130	Pass	
Endosulfan sulphate	R23-Ja0040748	CP	%	121			70-130	Pass	
Endrin	R23-Ja0040748	CP	%	108			70-130	Pass	
Endrin aldehyde	R23-Ja0040748	CP	%	112			70-130	Pass	
Endrin ketone	R23-Ja0040748	CP	%	120			70-130	Pass	
g-HCH (Lindane)	R23-Ja0040748	CP	%	117			70-130	Pass	
Heptachlor	R23-Ja0040748	CP	%	107			70-130	Pass	
Heptachlor epoxide	R23-Ja0040748	CP	%	107			70-130	Pass	
Hexachlorobenzene	R23-Ja0040748	CP	%	103			70-130	Pass	
Methoxychlor	R23-Ja0040748	CP	%	105			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	R23-Ja0040748	CP	%	96			70-130	Pass	
Aroclor-1260	R23-Ja0040748	CP	%	85			70-130	Pass	
Spike - % Recovery									
Per- and Polyfluoroalkyl Substances (PFASs) - Short				Result 1					
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	R23-Ja0040755	CP	%	87			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	R23-Ja0040755	CP	%	85			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	R23-Ja0040755	CP	%	115			50-150	Pass	
Perfluorooctanoic acid (PFOA)	R23-Ja0040755	CP	%	101			50-150	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chlordanes - Total	R23-Ja0040766	CP	%	85			70-130	Pass	
4.4'-DDD	R23-Ja0040766	CP	%	90			70-130	Pass	
4.4'-DDE	R23-Ja0040766	CP	%	84			70-130	Pass	
4.4'-DDT	R23-Ja0040766	CP	%	73			70-130	Pass	
a-HCH	R23-Ja0040766	CP	%	82			70-130	Pass	
Aldrin	R23-Ja0040766	CP	%	85			70-130	Pass	
b-HCH	R23-Ja0040766	CP	%	79			70-130	Pass	
d-HCH	R23-Ja0040766	CP	%	79			70-130	Pass	
Dieldrin	R23-Ja0040766	CP	%	78			70-130	Pass	
Endosulfan I	R23-Ja0040766	CP	%	86			70-130	Pass	
Endosulfan II	R23-Ja0040766	CP	%	84			70-130	Pass	
Endosulfan sulphate	R23-Ja0040766	CP	%	97			70-130	Pass	
Endrin	R23-Ja0040766	CP	%	90			70-130	Pass	
Endrin aldehyde	R23-Ja0040766	CP	%	86			70-130	Pass	
Endrin ketone	R23-Ja0040766	CP	%	100			70-130	Pass	
g-HCH (Lindane)	R23-Ja0040766	CP	%	90			70-130	Pass	
Heptachlor	R23-Ja0040766	CP	%	85			70-130	Pass	
Heptachlor epoxide	R23-Ja0040766	CP	%	85			70-130	Pass	
Hexachlorobenzene	R23-Ja0040766	CP	%	86			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	R23-Ja0040766	CP	%	80			70-130	Pass	
Aroclor-1260	R23-Ja0040766	CP	%	90			70-130	Pass	
Spike - % Recovery									
Per- and Polyfluoroalkyl Substances (PFASs) - Short				Result 1					
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	R23-Ja0040768	CP	%	103			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	R23-Ja0040768	CP	%	109			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	R23-Ja0040768	CP	%	111			50-150	Pass	
Perfluorooctanoic acid (PFOA)	R23-Ja0040768	CP	%	91			50-150	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	R23-Ja0040769	CP	%	74			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	R23-Ja0040769	CP	%	74			70-130	Pass	
Toluene	R23-Ja0040769	CP	%	92			70-130	Pass	
Ethylbenzene	R23-Ja0040769	CP	%	105			70-130	Pass	
m&p-Xylenes	R23-Ja0040769	CP	%	91			70-130	Pass	
o-Xylene	R23-Ja0040769	CP	%	97			70-130	Pass	
Xylenes - Total*	R23-Ja0040769	CP	%	93			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	R23-Ja0040769	CP	%	84			70-130	Pass	
TRH C6-C10	R23-Ja0040769	CP	%	78			70-130	Pass	
Spike - % Recovery									
Per- and Polyfluoroalkyl Substances (PFASs) - Short				Result 1					
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	R23-Ja0040772	CP	%	107			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	R23-Ja0040772	CP	%	102			50-150	Pass	
Perfluorooctanoic acid (PFOA)	R23-Ja0040772	CP	%	111			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S23-Fe0002457	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S23-Fe0002457	NCP	mg/kg	110	130	12	30%	Pass	
TRH C29-C36	S23-Fe0002457	NCP	mg/kg	54	67	22	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S23-Fe0002457	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S23-Fe0002457	NCP	mg/kg	140	160	16	30%	Pass	
TRH >C34-C40	S23-Fe0002457	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Per- and Polyfluoroalkyl Substances (PFASs) - Short				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	R23-Ja0040737	CP	ug/kg	< 10	< 10	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	R23-Ja0040737	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	R23-Ja0040737	CP	ug/kg	5.6	5.1	9.4	30%	Pass	
Perfluorooctanoic acid (PFOA)	R23-Ja0040737	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	R23-Ja0040743	CP	%	9.1	8.5	6.2	30%	Pass	
Duplicate									
Per- and Polyfluoroalkyl Substances (PFASs) - Short				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	R23-Ja0040755	CP	ug/kg	< 10	< 10	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	R23-Ja0040755	CP	ug/kg	20	18	10	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	R23-Ja0040755	CP	ug/kg	170	160	7.2	30%	Pass	
Perfluorooctanoic acid (PFOA)	R23-Ja0040755	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	R23-Ja0040756	CP	%	17	17	1.6	30%	Pass	
Duplicate									
Per- and Polyfluoroalkyl Substances (PFASs) - Short				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	R23-Ja0040759	CP	ug/kg	< 10	< 10	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	R23-Ja0040759	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Metals M8				Result 1	Result 2	RPD			
Arsenic	R23-Ja0040766	CP	mg/kg	4.7	4.6	1.9	30%	Pass	
Cadmium	R23-Ja0040766	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	R23-Ja0040766	CP	mg/kg	39	39	<1	30%	Pass	
Copper	R23-Ja0040766	CP	mg/kg	9.8	9.9	1.7	30%	Pass	
Lead	R23-Ja0040766	CP	mg/kg	21	21	<1	30%	Pass	
Mercury	R23-Ja0040766	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	R23-Ja0040766	CP	mg/kg	9.3	9.7	4.3	30%	Pass	
Zinc	R23-Ja0040766	CP	mg/kg	28	31	12	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	R23-Ja0040768	CP	%	13	12	7.7	30%	Pass	

Duplicate									
Metals M8				Result 1	Result 2	RPD			
Arsenic	R23-Ja0040769	CP	mg/kg	3.3	3.5	6.0	30%	Pass	
Cadmium	R23-Ja0040769	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	R23-Ja0040769	CP	mg/kg	49	43	14	30%	Pass	
Copper	R23-Ja0040769	CP	mg/kg	29	27	9.0	30%	Pass	
Lead	R23-Ja0040769	CP	mg/kg	14	13	4.8	30%	Pass	
Mercury	R23-Ja0040769	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	R23-Ja0040769	CP	mg/kg	6.8	7.1	3.3	30%	Pass	
Zinc	R23-Ja0040769	CP	mg/kg	28	29	4.8	30%	Pass	
Duplicate									
Per- and Polyfluoroalkyl Substances (PFASs) - Short				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	R23-Ja0040770	CP	ug/kg	< 10	< 10	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	R23-Ja0040770	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	R23-Ja0040770	CP	ug/kg	6.5	5.5	15	30%	Pass	
Perfluorooctanoic acid (PFOA)	R23-Ja0040770	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Per- and Polyfluoroalkyl Substances (PFASs) - Short				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	R23-Ja0040771	CP	ug/kg	< 10	< 10	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	R23-Ja0040771	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	R23-Ja0040772	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	R23-Ja0040772	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	R23-Ja0040772	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	R23-Ja0040772	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	R23-Ja0040772	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	R23-Ja0040772	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	R23-Ja0040772	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	R23-Ja0040772	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	R23-Ja0040772	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	R23-Ja0040772	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	R23-Ja0040772	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	R23-Ja0040772	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	R23-Ja0040772	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	R23-Ja0040772	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	R23-Ja0040772	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	R23-Ja0040772	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	R23-Ja0040772	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	R23-Ja0040772	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	R23-Ja0040772	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	R23-Ja0040772	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	R23-Ja0040772	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	R23-Ja0040772	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	R23-Ja0040772	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	R23-Ja0040772	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	R23-Ja0040772	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	R23-Ja0040772	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	R23-Ja0040772	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	R23-Ja0040772	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	R23-Ja0040772	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	R23-Ja0040772	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	R23-Ja0040772	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	R23-Ja0040772	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	R23-Ja0040772	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	R23-Ja0040772	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	R23-Ja0040772	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	R23-Ja0040772	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	R23-Ja0040772	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	R23-Ja0040772	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	R23-Ja0040772	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	R23-Ja0040772	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	R23-Ja0040772	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	R23-Ja0040772	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	R23-Ja0040772	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	R23-Ja0040772	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	R23-Ja0040772	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	R23-Ja0040772	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	R23-Ja0040772	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	R23-Ja0040772	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	R23-Ja0040772	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	R23-Ja0040772	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	R23-Ja0040772	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	R23-Ja0040772	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	R23-Ja0040772	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	R23-Ja0040772	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Phenols (Halogenated)				Result 1	Result 2	RPD			
2-Chlorophenol	R23-Ja0040772	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dichlorophenol	R23-Ja0040772	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-Trichlorophenol	R23-Ja0040772	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4.6-Trichlorophenol	R23-Ja0040772	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.6-Dichlorophenol	R23-Ja0040772	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chloro-3-methylphenol	R23-Ja0040772	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Pentachlorophenol	R23-Ja0040772	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Tetrachlorophenols - Total	R23-Ja0040772	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Phenols (non-Halogenated)				Result 1	Result 2	RPD			
2-Cyclohexyl-4.6-dinitrophenol	R23-Ja0040772	CP	mg/kg	< 20	< 20	<1	30%	Pass	
2-Methyl-4.6-dinitrophenol	R23-Ja0040772	CP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Nitrophenol	R23-Ja0040772	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4-Dimethylphenol	R23-Ja0040772	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dinitrophenol	R23-Ja0040772	CP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Methylphenol (o-Cresol)	R23-Ja0040772	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
3&4-Methylphenol (m&p-Cresol)	R23-Ja0040772	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
4-Nitrophenol	R23-Ja0040772	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Dinoseb	R23-Ja0040772	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Phenol	R23-Ja0040772	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Metals M8				Result 1	Result 2	RPD			
Arsenic	R23-Ja0040772	CP	mg/kg	5.6	5.1	10	30%	Pass	
Cadmium	R23-Ja0040772	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	R23-Ja0040772	CP	mg/kg	58	56	3.4	30%	Pass	
Copper	R23-Ja0040772	CP	mg/kg	18	16	15	30%	Pass	
Lead	R23-Ja0040772	CP	mg/kg	23	17	27	30%	Pass	
Mercury	R23-Ja0040772	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Zinc	R23-Ja0040772	CP	mg/kg	36	33	10	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	R23-Ja0040773	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	R23-Ja0040773	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	R23-Ja0040773	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	R23-Ja0040773	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	R23-Ja0040773	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	R23-Ja0040773	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	R23-Ja0040773	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	R23-Ja0040773	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	R23-Ja0040773	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	R23-Ja0040773	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	R23-Ja0040773	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	R23-Ja0040773	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	R23-Ja0040773	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	R23-Ja0040773	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	R23-Ja0040773	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	R23-Ja0040773	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	R23-Ja0040773	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	R23-Ja0040773	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	R23-Ja0040773	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	R23-Ja0040773	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	R23-Ja0040773	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	R23-Ja0040773	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	R23-Ja0040773	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	R23-Ja0040773	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	R23-Ja0040773	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	R23-Ja0040773	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	R23-Ja0040773	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	R23-Ja0040773	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	R23-Ja0040773	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	R23-Ja0040773	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	R23-Ja0040773	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	R23-Ja0040773	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	R23-Ja0040773	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	R23-Ja0040773	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	R23-Ja0040773	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	R23-Ja0040773	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	R23-Ja0040773	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	R23-Ja0040773	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	R23-Ja0040773	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	R23-Ja0040773	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	R23-Ja0040773	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	

Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1248	R23-Ja0040773	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	R23-Ja0040773	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	R23-Ja0040773	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	R23-Ja0040773	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Phenols (Halogenated)				Result 1	Result 2	RPD			
2-Chlorophenol	R23-Ja0040773	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dichlorophenol	R23-Ja0040773	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-Trichlorophenol	R23-Ja0040773	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4.6-Trichlorophenol	R23-Ja0040773	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.6-Dichlorophenol	R23-Ja0040773	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chloro-3-methylphenol	R23-Ja0040773	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Pentachlorophenol	R23-Ja0040773	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Tetrachlorophenols - Total	R23-Ja0040773	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Phenols (non-Halogenated)				Result 1	Result 2	RPD			
2-Cyclohexyl-4.6-dinitrophenol	R23-Ja0040773	CP	mg/kg	< 20	< 20	<1	30%	Pass	
2-Methyl-4.6-dinitrophenol	R23-Ja0040773	CP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Nitrophenol	R23-Ja0040773	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4-Dimethylphenol	R23-Ja0040773	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dinitrophenol	R23-Ja0040773	CP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Methylphenol (o-Cresol)	R23-Ja0040773	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
3&4-Methylphenol (m&p-Cresol)	R23-Ja0040773	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
4-Nitrophenol	R23-Ja0040773	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Dinoseb	R23-Ja0040773	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Phenol	R23-Ja0040773	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Comments

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
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
N09	Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear/branched standard.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
Q09	The Surrogate recovery is outside of the recommended acceptance criteria due to matrix interference. Acceptance criteria were met for all other QC
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Quinn Raw	Analytical Services Manager
Fang Yee Tan	Senior Analyst-Metal
Jonathon Angell	Senior Analyst-PFAS
Mickael Ros	Senior Analyst-Metal
Roopesh Rangarajan	Senior Analyst-Organic
Roopesh Rangarajan	Senior Analyst-Volatile

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.

Agon Environmental Pty Ltd - ACT
68 Northbourne Ave
Canberra
ACT 2060

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: **John O Brien - ACT Manager**

Report **958625-W**
Project name FAIRBAIRN
Received Date Jan 27, 2023

Client Sample ID			**RB01**
Sample Matrix			**Water**
Eurofins Sample No.			**R23-Ja0040775**
Date Sampled			**Jan 25, 2023**
Test/Reference	LOR	Unit	
Per- and Polyfluoroalkyl Substances (PFASs) - Short			
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	< 0.05
13C2-6:2 FTSA (surr.)	1	%	81
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01
18O2-PFHxS (surr.)	1	%	89
13C8-PFOS (surr.)	1	%	88
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01
13C8-PFOA (surr.)	1	%	97
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01

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
Per- and Polyfluoroalkyl Substances (PFASs) - Short	Sydney	Feb 02, 2023	28 Days

- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)

eurofins

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Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West NSW 2304
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	Tel: +61 2 4968 8448
Tel: +61 3 8564 5000	Tel: +61 3 8564 5000	Tel: +61 2 9900 8400	Tel: +61 2 6113 8091	Tel: +61 7 3902 4600	NATA# 1261
NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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46-48 Banksia Road
Welshpool
WA 6106
Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Christchurch
35 O'Rorke Road	43 Detroit Drive
Penrose,	Rolleston,
Auckland 1061	Christchurch 7675
Tel: +64 9 526 45 51	Tel: 0800 856 450
IANZ# 1327	IANZ# 1290

Company Name: Agon Environmental Pty Ltd - ACT
Address: 68 Northbourne Ave
Canberra
ACT 2060

Project Name: FAIRBAIRN

Order No.:
Report #: 958625
Phone: 0419 170 791
Fax:

Received: Jan 27, 2023 11:06 AM
Due: Feb 3, 2023
Priority: 5 Day
Contact Name: John O Brien - ACT Manager

Eurofins Analytical Services Manager : Quinn Raw

Sample Detail						AUS Leaching Procedure	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7A	Per- and Polyfluoroalkyl Substances (PFASs) - Short	Per- and Polyfluoroalkyl Substances (PFASs) - Short
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X				X	X
External Laboratory											
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
1	BH101 - 0.1	Jan 25, 2023		Soil	R23-Ja0040737		X	X	X	X	
2	BH101 - 0.3	Jan 25, 2023		Soil	R23-Ja0040738			X		X	
3	BH101 - 0.5	Jan 25, 2023		Soil	R23-Ja0040739			X			X
4	BH102 - 0.1	Jan 25, 2023		Soil	R23-Ja0040740			X		X	
5	BH102 - 0.3	Jan 25, 2023		Soil	R23-Ja0040741		X	X	X	X	
6	BH102 - 0.5	Jan 25, 2023		Soil	R23-Ja0040742			X			X
7	BH103 - 0.1	Jan 25, 2023		Soil	R23-Ja0040743			X			X
8	BH103 - 0.3	Jan 25, 2023		Soil	R23-Ja0040744			X		X	
9	BH103 - 0.5	Jan 25, 2023		Soil	R23-Ja0040745		X	X	X	X	
10	BH104 - 0.1	Jan 25, 2023		Soil	R23-Ja0040746			X		X	
11	BH104 - 0.3	Jan 25, 2023		Soil	R23-Ja0040747			X			X
12	BH104 - 0.5	Jan 25, 2023		Soil	R23-Ja0040748		X	X	X	X	
13	BH105 - 0.1	Jan 25, 2023		Soil	R23-Ja0040749			X		X	

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Company Name: Agon Environmental Pty Ltd - ACT
Address: 68 Northbourne Ave
Canberra
ACT 2060

Project Name: FAIRBAIRN

Order No.:
Report #: 958625
Phone: 0419 170 791
Fax:

Received: Jan 27, 2023 11:06 AM
Due: Feb 3, 2023
Priority: 5 Day
Contact Name: John O Brien - ACT Manager

Eurofins Analytical Services Manager : Quinn Raw

Sample Detail						AUS Leaching Procedure	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7A	Per- and Polyfluoroalkyl Substances (PFASs) - Short	Per- and Polyfluoroalkyl Substances (PFASs) - Short
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X				X	X
14	BH105 - 0.3	Jan 25, 2023		Soil	R23-Ja0040750		X	X	X		X
15	BH105 - 0.5	Jan 25, 2023		Soil	R23-Ja0040751			X		X	
16	BH106 - 0.1	Jan 25, 2023		Soil	R23-Ja0040752			X		X	
17	BH106 - 0.3	Jan 25, 2023		Soil	R23-Ja0040753			X			X
18	BH106 - 0.5	Jan 25, 2023		Soil	R23-Ja0040754		X	X	X	X	
19	BH107 - 0.1	Jan 25, 2023		Soil	R23-Ja0040755			X		X	
20	BH107 - 0.3	Jan 25, 2023		Soil	R23-Ja0040756			X			X
21	BH107 - 0.5	Jan 25, 2023		Soil	R23-Ja0040757			X			X
22	BH108 - 0.1	Jan 25, 2023		Soil	R23-Ja0040758		X	X	X	X	
23	BH108 - 0.3	Jan 25, 2023		Soil	R23-Ja0040759			X			X
24	BH108 - 0.5	Jan 25, 2023		Soil	R23-Ja0040760			X		X	
25	BH109 - 0.1	Jan 25, 2023		Soil	R23-Ja0040761			X		X	
26	BH109 - 0.3	Jan 25, 2023		Soil	R23-Ja0040762			X			X
27	BH109 - 0.5	Jan 25, 2023		Soil	R23-Ja0040763		X	X	X	X	
28	BH110 - 0.1	Jan 25, 2023		Soil	R23-Ja0040764			X			X

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Contact Name: John O Brien - ACT Manager

Eurofins Analytical Services Manager : Quinn Raw

Sample Detail						AUS Leaching Procedure	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7A	Per- and Polyfluoroalkyl Substances (PFASs) - Short	Per- and Polyfluoroalkyl Substances (PFASs) - Short
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X				X	X
29	BH111 - 0.1	Jan 25, 2023		Soil	R23-Ja0040765			X			X
30	BH112 - 0.1	Jan 25, 2023		Soil	R23-Ja0040766		X	X	X	X	
31	BH113 - 0.1	Jan 25, 2023		Soil	R23-Ja0040767			X			X
32	BH114 - 0.1	Jan 25, 2023		Soil	R23-Ja0040768			X		X	
33	BH115 - 0.1	Jan 25, 2023		Soil	R23-Ja0040769		X	X	X		X
34	BH116 - 0.1	Jan 25, 2023		Soil	R23-Ja0040770			X		X	
35	BH117 - 0.1	Jan 25, 2023		Soil	R23-Ja0040771		X	X	X		X
36	QC202	Jan 25, 2023		Soil	R23-Ja0040772		X	X	X		X
37	QC203	Jan 25, 2023		Soil	R23-Ja0040773		X	X	X		
38	QC204	Jan 25, 2023		Soil	R23-Ja0040774			X			X
39	RB01	Jan 25, 2023		Water	R23-Ja0040775						X
40	BH101 - 0.1 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040776	X				X	
41	BH101 - 0.3 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040777	X				X	
42	BH102 - 0.1	Jan 25, 2023		AUS Leachate	R23-Ja0040778	X				X	

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Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X				X	X
	(ASLP)										
43	BH102 - 0.3 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040779	X				X	
44	BH103 - 0.3 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040780	X				X	
45	BH103 - 0.5 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040781	X				X	
46	BH104 - 0.1 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040782	X				X	
47	BH104 - 0.5 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040783	X				X	
48	BH105 - 0.1 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040784	X				X	
49	BH105 - 0.5 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040785	X				X	
50	BH106 - 0.1 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040786	X				X	
51	BH106 - 0.5	Jan 25, 2023		AUS Leachate	R23-Ja0040787	X				X	

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Priority: 5 Day
Contact Name: John O Brien - ACT Manager

Eurofins Analytical Services Manager : Quinn Raw

Sample Detail						AUS Leaching Procedure	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7A	Per- and Polyfluoroalkyl Substances (PFASs) - Short	Per- and Polyfluoroalkyl Substances (PFASs) - Short
Sydney Laboratory - NATA # 1261 Site # 18217							X	X	X	X	X
Brisbane Laboratory - NATA # 1261 Site # 20794						X				X	X
	(ASLP)										
52	BH107 - 0.1 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040789	X				X	
53	BH108 - 0.1 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040790	X				X	
54	BH108 - 0.5 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040791	X				X	
55	BH109 - 0.1 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040792	X				X	
56	BH109 - 0.5 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040793	X				X	
57	BH112 - 0.1 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040794	X				X	
58	BH114 - 0.1 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040795	X				X	
59	BH116 - 0.1 (ASLP)	Jan 25, 2023		AUS Leachate	R23-Ja0040796	X				X	
Test Counts						20	13	38	13	58	58

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Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

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

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

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

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Per- and Polyfluoroalkyl Substances (PFASs) - Short							
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/L	< 0.05			0.05	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01			0.01	Pass	
LCS - % Recovery							
Per- and Polyfluoroalkyl Substances (PFASs) - Short							
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	123			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	98			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	99			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	100			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Per- and Polyfluoroalkyl Substances (PFASs) - Short				Result 1					
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	S23-Fe0000084	NCP	%	108			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	N23-Fe0000963	NCP	%	97			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	N23-Fe0000963	NCP	%	94			50-150	Pass	
Perfluorooctanoic acid (PFOA)	S23-Fe0000084	NCP	%	100			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Per- and Polyfluoroalkyl Substances (PFASs) - Short				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	S23-Fe0000083	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	N23-Fe0000964	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	N23-Fe0000964	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S23-Fe0000083	NCP	ug/L	< 0.01	< 0.01	<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
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.

Authorised by:

Quinn Raw Analytical Services Manager

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.

ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **ES2303331**	Page	: 1 of 7
Client	: **AGON ENVIRONMENTAL PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: JOHN O'BRIEN	Contact	: Josh Alexander
Address	: 4/10 KENNEDY STREET KINGSTON 2604	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 08 8338 1009	Telephone	: +61-2-8784 8555
Project	: Fairbairn	Date Samples Received	: 02-Feb-2023 13:35
Order number	: ----	Date Analysis Commenced	: 03-Feb-2023
C-O-C number	: ----	Issue Date	: 08-Feb-2023 16:06
Sampler	: KL		
Site	: ----		
Quote number	: EN/150/21		
No. of samples received	: 1		
No. of samples analysed	: 1		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Inorganics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP068: Where reported, Total Chlordane (sum) is the sum of the reported concentrations of cis-Chlordane and trans-Chlordane at or above the LOR.
- EP068: Where reported, Total OCP is the sum of the reported concentrations of all Organochlorine Pesticides at or above LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS (Australian HEPA) and also conform to QSM 5.3 (US DoD) requirements.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	QC201	----	----	----	----
			Sampling date / time	25-Jan-2023 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit	ES2303331-001	--------	--------	--------	--------
				Result	----	----	----	----
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	**16.3**	----	----	----	----
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	----	----	----	----
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	----	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	----	----	----	----
beta-BHC	319-85-7	0.05	mg/kg	<0.05	----	----	----	----
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	----	----	----	----
delta-BHC	319-86-8	0.05	mg/kg	<0.05	----	----	----	----
Heptachlor	76-44-8	0.05	mg/kg	<0.05	----	----	----	----
Aldrin	309-00-2	0.05	mg/kg	<0.05	----	----	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	----	----	----	----
^ **Total Chlordane (sum)**	----	0.05	mg/kg	<0.05	----	----	----	----
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	----	----	----	----
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	----	----	----	----
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	----	----	----	----
Dieldrin	60-57-1	0.05	mg/kg	<0.05	----	----	----	----
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	----	----	----	----
Endrin	72-20-8	0.05	mg/kg	<0.05	----	----	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	----	----	----	----
^ **Endosulfan (sum)**	115-29-7	0.05	mg/kg	<0.05	----	----	----	----
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	----	----	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	----	----	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	----	----	----	----
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	----	----	----	----
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	----	----	----	----
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	----	----	----	----
^ **Sum of Aldrin + Dieldrin**	309-00-2/60-57-1	0.05	mg/kg	<0.05	----	----	----	----
^ **Sum of DDD + DDE + DDT**	72-54-8/72-55-9/50-29-3	0.05	mg/kg	<0.05	----	----	----	----
EP075(SIM)A: Phenolic Compounds								
Phenol	108-95-2	0.5	mg/kg	<0.5	----	----	----	----
2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	----	----	----	----
2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	----	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	QC201	----	----	----	----
			Sampling date / time	25-Jan-2023 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit	ES2303331-001	--------	--------	--------	--------
				Result	----	----	----	----
EP075(SIM)A: Phenolic Compounds - Continued								
3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	----	----	----	----
2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	----	----	----	----
2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	----	----	----	----
2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	----	----	----	----
2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	----	----	----	----
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	----	----	----	----
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	----	----	----	----
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	----	----	----	----
Pentachlorophenol	87-86-5	2	mg/kg	<2	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	----	----	----	----
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	----	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	----	----	----	----
Fluorene	86-73-7	0.5	mg/kg	<0.5	----	----	----	----
Phenanthrene	85-01-8	0.5	mg/kg	<0.5	----	----	----	----
Anthracene	120-12-7	0.5	mg/kg	<0.5	----	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	----	----	----	----
Pyrene	129-00-0	0.5	mg/kg	<0.5	----	----	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	----	----	----	----
Chrysene	218-01-9	0.5	mg/kg	<0.5	----	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	----	----	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	----	----	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	----	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	----	----	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	----	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	----	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	----	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	----	----	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	----	----	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	----	----	----	----
C10 - C14 Fraction	----	50	mg/kg	<50	----	----	----	----
C15 - C28 Fraction	----	100	mg/kg	<100	----	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	QC201	----	----	----	----
			Sampling date / time	25-Jan-2023 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit	ES2303331-001	--------	--------	--------	--------
				Result	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons - Continued								
C29 - C36 Fraction	----	100	mg/kg	<100	----	----	----	----
^ **C10 - C36 Fraction (sum)**	----	50	mg/kg	<50	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	----	----	----	----
^ **C6 - C10 Fraction minus BTEX (F1)**	C6_C10-BTEX	10	mg/kg	<10	----	----	----	----
>C10 - C16 Fraction	----	50	mg/kg	<50	----	----	----	----
>C16 - C34 Fraction	----	100	mg/kg	<100	----	----	----	----
>C34 - C40 Fraction	----	100	mg/kg	<100	----	----	----	----
^ **>C10 - C40 Fraction (sum)**	----	50	mg/kg	<50	----	----	----	----
^ **>C10 - C16 Fraction minus Naphthalene (F2)**	----	50	mg/kg	<50	----	----	----	----
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	----	----	----	----
Toluene	108-88-3	0.5	mg/kg	<0.5	----	----	----	----
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	----	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	----	----	----	----
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	----	----	----	----
^ **Sum of BTEX**	----	0.2	mg/kg	<0.2	----	----	----	----
^ **Total Xylenes**	----	0.5	mg/kg	<0.5	----	----	----	----
Naphthalene	91-20-3	1	mg/kg	<1	----	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	**0.0004**	----	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	**0.0036**	----	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	**0.0068**	----	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	----	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	**0.0004**	----	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	**0.0011**	----	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	----	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	**0.0003**	----	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	QC201	----	----	----	----
				Sampling date / time	25-Jan-2023 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit		ES2303331-001	--------	--------	--------	--------
					Result	----	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids - Continued									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg		<0.0005	----	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg		<0.0005	----	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		<0.0005	----	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		<0.0005	----	----	----	----
EP231P: PFAS Sums									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		**0.0104**	----	----	----	----
Sum of PFAS (WA DER List)	----	0.0002	mg/kg		**0.0126**	----	----	----	----
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%		**94.8**	----	----	----	----
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		**82.1**	----	----	----	----
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		**76.0**	----	----	----	----
EP075(SIM)S: Phenolic Compound Surrogates									
Phenol-d6	13127-88-3	0.5	%		**97.1**	----	----	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%		**93.8**	----	----	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%		**69.4**	----	----	----	----
EP075(SIM)T: PAH Surrogates									
2-Fluorobiphenyl	321-60-8	0.5	%		**112**	----	----	----	----
Anthracene-d10	1719-06-8	0.5	%		**110**	----	----	----	----
4-Terphenyl-d14	1718-51-0	0.5	%		**103**	----	----	----	----
EP080S: TPH(V)/BTEX Surrogates									
1.2-Dichloroethane-D4	17060-07-0	0.2	%		**96.0**	----	----	----	----
Toluene-D8	2037-26-5	0.2	%		**90.0**	----	----	----	----
4-Bromofluorobenzene	460-00-4	0.2	%		**98.9**	----	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		**100**	----	----	----	----
13C8-PFOA	----	0.0002	%		**106**	----	----	----	----

Surrogate Control Limits

Sub-Matrix: **SOIL**

Compound	CAS Number	Recovery Limits (%) Low	High
EP066S: PCB Surrogate			
Decachlorobiphenyl	2051-24-3	39	149
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	49	147
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	35	143
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	63	123
2-Chlorophenol-D4	93951-73-6	66	122
2.4.6-Tribromophenol	118-79-6	40	138
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	70	122
Anthracene-d10	1719-06-8	66	128
4-Terphenyl-d14	1718-51-0	65	129
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	73	133
Toluene-D8	2037-26-5	74	132
4-Bromofluorobenzene	460-00-4	72	130
EP231S: PFAS Surrogate			
13C4-PFOS	----	60	120
13C8-PFOA	----	60	120

ALS Environmental

QUALITY CONTROL REPORT

Work Order	: **ES2303331**	Page	: 1 of 11
Client	: **AGON ENVIRONMENTAL PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: JOHN O'BRIEN	Contact	: Josh Alexander
Address	: 4/10 KENNEDY STREET KINGSTON 2604	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 08 8338 1009	Telephone	: +61-2-8784 8555
Project	: Fairbairn	Date Samples Received	: 02-Feb-2023
Order number	: ----	Date Analysis Commenced	: 03-Feb-2023
C-O-C number	: ----	Issue Date	: 08-Feb-2023
Sampler	: KL		
Site	: ----		
Quote number	: EN/150/21		
No. of samples received	: 1		
No. of samples analysed	: 1		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Inorganics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4853943)									
ES2303163-003	Anonymous	EA055: Moisture Content	----	0.1	%	8.5	9.1	6.4	0% - 20%
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 4850177)									
ES2303326-001	Anonymous	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 4850180)									
ES2303326-001	Anonymous	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP068A: Organochlorine Pesticides (OC) (QC Lot: 4850180) - continued									
ES2303326-001	Anonymous	EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
EP075(SIM)A: Phenolic Compounds (QC Lot: 4850179)									
ES2303326-011	Anonymous	EP075(SIM): Phenol	108-95-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	0.0	No Limit
		EP075(SIM): Pentachlorophenol	87-86-5	2	mg/kg	<2	<2	0.0	No Limit
ES2303326-001	Anonymous	EP075(SIM): Phenol	108-95-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	0.0	No Limit
		EP075(SIM): Pentachlorophenol	87-86-5	2	mg/kg	<2	<2	0.0	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4850179)									
ES2303326-011	Anonymous	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 4850179) - continued									
ES2303326-011	Anonymous	EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
ES2303326-001	Anonymous	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	<0.5	0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4850178)									
ES2303326-011	Anonymous	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2303326-001	Anonymous	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 4851247)									
ES2303326-001	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
ES2303331-001	QC201	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4850178)									
ES2303326-011	Anonymous	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4850178) - continued									
ES2303326-011	Anonymous	EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
ES2303326-001	Anonymous	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.0	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 4851247)									
ES2303326-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
ES2303331-001	QC201	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
EP080: BTEXN (QC Lot: 4851247)									
ES2303326-001	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
ES2303331-001	QC201	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 4855329)									
EP2301124-001	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0018	0.0028	40.3	0% - 50%
ES2303331-001	QC201	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	0.0004	0.0003	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	0.0036	0.0036	0.0	0% - 50%
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0068	0.0058	16.1	0% - 20%
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 4855329)									
EP2301124-001	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
ES2303331-001	QC201	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	0.0004	0.0004	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0011	0.0011	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0003	0.0003	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 4855329)									
EP2301124-001	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
ES2303331-001	QC201	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit

Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4850177)								
EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	99.1	62.0	126
EP068A: Organochlorine Pesticides (OC) (QCLot: 4850180)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	89.4	69.0	113
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	92.2	65.0	117
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	89.6	67.0	119
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	89.2	68.0	116
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	75.0	65.0	117
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	85.7	67.0	115
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	89.9	69.0	115
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	92.9	62.0	118
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	86.3	63.0	117
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	94.9	66.0	116
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	94.4	64.0	116
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	88.6	66.0	116
EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	89.8	67.0	115
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	80.6	67.0	123
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	90.5	69.0	115
EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	95.0	69.0	121
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	88.6	56.0	120
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	88.1	62.0	124
EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	86.2	66.0	120
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	86.6	64.0	122
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	85.8	54.0	130
EP075(SIM)A: Phenolic Compounds (QCLot: 4850179)								
EP075(SIM): Phenol	108-95-2	0.5	mg/kg	<0.5	6 mg/kg	105	71.0	125
EP075(SIM): 2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	6 mg/kg	107	72.0	124
EP075(SIM): 2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	6 mg/kg	106	71.0	123
EP075(SIM): 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	12 mg/kg	110	67.0	127
EP075(SIM): 2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	6 mg/kg	82.9	54.0	114
EP075(SIM): 2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	6 mg/kg	89.8	68.0	126
EP075(SIM): 2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	6 mg/kg	93.0	66.0	120
EP075(SIM): 2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	6 mg/kg	99.0	70.0	120
EP075(SIM): 4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	6 mg/kg	90.5	70.0	116
EP075(SIM): 2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	6 mg/kg	96.3	54.0	114

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP075(SIM)A: Phenolic Compounds (QCLot: 4850179) - continued								
EP075(SIM): 2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	6 mg/kg	103	60.0	114
EP075(SIM): Pentachlorophenol	87-86-5	2	mg/kg	<2	12 mg/kg	44.4	10.0	80.0
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4850179)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	6 mg/kg	99.6	77.0	125
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	6 mg/kg	106	72.0	124
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	6 mg/kg	100	73.0	127
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	6 mg/kg	105	72.0	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	6 mg/kg	103	75.0	127
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	6 mg/kg	82.0	77.0	127
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	6 mg/kg	105	73.0	127
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	6 mg/kg	106	74.0	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	6 mg/kg	91.3	69.0	123
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	6 mg/kg	97.6	75.0	127
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	6 mg/kg	87.8	68.0	116
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	6 mg/kg	106	74.0	126
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	6 mg/kg	92.1	70.0	126
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	6 mg/kg	99.1	61.0	121
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	6 mg/kg	98.3	62.0	118
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	6 mg/kg	95.3	63.0	121
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4850178)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	300 mg/kg	108	75.0	129
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	450 mg/kg	96.4	77.0	131
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	300 mg/kg	102	71.0	129
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4851247)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	26 mg/kg	96.0	68.4	128
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4850178)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	375 mg/kg	94.4	77.0	125
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	525 mg/kg	102	74.0	138
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	225 mg/kg	102	63.0	131
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4851247)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	102	68.4	128
EP080: BTEXN (QCLot: 4851247)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	90.2	62.0	116
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	95.9	67.0	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	93.0	65.0	117
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	94.1	66.0	118

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EP080: BTEXN (QCLot: 4851247) - continued								
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	94.0	68.0	120
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	114	63.0	119
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4855329)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00125 mg/kg	89.6	72.0	128
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	88.0	67.0	130
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	97.6	68.0	136
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4855329)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	102	71.0	135
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	123	69.0	132
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	109	70.0	132
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	107	71.0	131
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	119	69.0	133
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4855329)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00125 mg/kg	111	62.0	145
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00125 mg/kg	119	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	0.00125 mg/kg	109	65.0	137
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.00125 mg/kg	78.4	69.2	143

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
				Concentration	MS	Low	High
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 4850177)							
ES2303326-001	Anonymous	EP066: Total Polychlorinated biphenyls	----	1 mg/kg	98.8	70.0	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 4850180)							
ES2303326-001	Anonymous	EP068: gamma-BHC	58-89-9	0.5 mg/kg	88.4	70.0	130
		EP068: Heptachlor	76-44-8	0.5 mg/kg	83.8	70.0	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	89.2	70.0	130
		EP068: Dieldrin	60-57-1	0.5 mg/kg	96.5	70.0	130
		EP068: Endrin	72-20-8	2 mg/kg	71.0	70.0	130
		EP068: 4.4`-DDT	50-29-3	2 mg/kg	72.3	70.0	130
EP075(SIM)A: Phenolic Compounds (QCLot: 4850179)							
ES2303326-001	Anonymous	EP075(SIM): Phenol	108-95-2	10 mg/kg	104	70.0	130
		EP075(SIM): 2-Chlorophenol	95-57-8	10 mg/kg	102	70.0	130

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP075(SIM)A: Phenolic Compounds (QCLot: 4850179) - continued							
ES2303326-001	Anonymous	EP075(SIM): 2-Nitrophenol	88-75-5	10 mg/kg	81.1	60.0	130
		EP075(SIM): 4-Chloro-3-methylphenol	59-50-7	10 mg/kg	90.6	70.0	130
		EP075(SIM): Pentachlorophenol	87-86-5	10 mg/kg	40.9	20.0	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 4850179)							
ES2303326-001	Anonymous	EP075(SIM): Acenaphthene	83-32-9	10 mg/kg	106	70.0	130
		EP075(SIM): Pyrene	129-00-0	10 mg/kg	112	70.0	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4850178)							
ES2303326-001	Anonymous	EP071: C10 - C14 Fraction	----	480 mg/kg	107	73.0	137
		EP071: C15 - C28 Fraction	----	3100 mg/kg	120	53.0	131
		EP071: C29 - C36 Fraction	----	2060 mg/kg	114	52.0	132
EP080/071: Total Petroleum Hydrocarbons (QCLot: 4851247)							
ES2303326-001	Anonymous	EP080: C6 - C9 Fraction	----	32.5 mg/kg	122	70.0	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4850178)							
ES2303326-001	Anonymous	EP071: >C10 - C16 Fraction	----	860 mg/kg	102	73.0	137
		EP071: >C16 - C34 Fraction	----	4320 mg/kg	113	53.0	131
		EP071: >C34 - C40 Fraction	----	890 mg/kg	109	52.0	132
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 4851247)							
ES2303326-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	128	70.0	130
EP080: BTEXN (QCLot: 4851247)							
ES2303326-001	Anonymous	EP080: Benzene	71-43-2	2.5 mg/kg	102	70.0	130
		EP080: Toluene	108-88-3	2.5 mg/kg	104	70.0	130
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	101	70.0	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2.5 mg/kg	97.7	70.0	130
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	96.8	70.0	130
		EP080: Naphthalene	91-20-3	2.5 mg/kg	96.8	70.0	130
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 4855329)							
EP2301124-001	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00125 mg/kg	100	72.0	128
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00125 mg/kg	101	67.0	130
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00125 mg/kg	68.0	68.0	136
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 4855329)							
EP2301124-001	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	94.9	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	122	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	114	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	116	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	116	69.0	133

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*Concentration*	*MS*	*Low*	*High*
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 4855329)							
EP2301124-001	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00125 mg/kg	122	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00125 mg/kg	116	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.00125 mg/kg	122	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00125 mg/kg	75.6	69.2	143

ALS Environmental

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **ES2303331**	Page	: 1 of 5
Client	: **AGON ENVIRONMENTAL PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: JOHN O'BRIEN	Telephone	: +61-2-8784 8555
Project	: Fairbairn	Date Samples Received	: 02-Feb-2023
Site	: ----	Issue Date	: 08-Feb-2023
Sampler	: KL	No. of samples received	: 1
Order number	: ----	No. of samples analysed	: 1

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- **For all regular sample matrices, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **Quality Control Sample Frequency Outliers exist - please see following pages for full details.**

Outliers : Frequency of Quality Control Samples

Matrix: **SOIL**

Quality Control Sample Type	Count		Rate (%)		Quality Control Specification
Method	QC	Regular	Actual	Expected	
Laboratory Duplicates (DUP)					
Moisture Content	1	11	9.09	10.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / *Container* / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA055: Moisture Content (Dried @ 105-110°C)							
Soil Glass Jar - Unpreserved (EA055)							
QC201	**25-Jan-2023**	**----**	----	----	**06-Feb-2023**	08-Feb-2023	✓
EP066: Polychlorinated Biphenyls (PCB)							
Soil Glass Jar - Unpreserved (EP066)							
QC201	**25-Jan-2023**	**04-Feb-2023**	08-Feb-2023	✓	**07-Feb-2023**	16-Mar-2023	✓
EP068A: Organochlorine Pesticides (OC)							
Soil Glass Jar - Unpreserved (EP068)							
QC201	**25-Jan-2023**	**04-Feb-2023**	08-Feb-2023	✓	**06-Feb-2023**	16-Mar-2023	✓
EP075(SIM)A: Phenolic Compounds							
Soil Glass Jar - Unpreserved (EP075(SIM))							
QC201	**25-Jan-2023**	**04-Feb-2023**	08-Feb-2023	✓	**06-Feb-2023**	16-Mar-2023	✓
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved (EP075(SIM))							
QC201	**25-Jan-2023**	**04-Feb-2023**	08-Feb-2023	✓	**06-Feb-2023**	16-Mar-2023	✓
EP080/071: Total Petroleum Hydrocarbons							
Soil Glass Jar - Unpreserved (EP080)							
QC201	**25-Jan-2023**	**03-Feb-2023**	08-Feb-2023	✓	**07-Feb-2023**	08-Feb-2023	✓
Soil Glass Jar - Unpreserved (EP071)							
QC201	**25-Jan-2023**	**04-Feb-2023**	08-Feb-2023	✓	**06-Feb-2023**	16-Mar-2023	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Soil Glass Jar - Unpreserved (EP080)							
QC201	**25-Jan-2023**	**03-Feb-2023**	08-Feb-2023	✓	**07-Feb-2023**	08-Feb-2023	✓
Soil Glass Jar - Unpreserved (EP071)							
QC201	**25-Jan-2023**	**04-Feb-2023**	08-Feb-2023	✓	**06-Feb-2023**	16-Mar-2023	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080: BTEXN							
Soil Glass Jar - Unpreserved (EP080)							
QC201	**25-Jan-2023**	**03-Feb-2023**	08-Feb-2023	✓	**07-Feb-2023**	08-Feb-2023	✓
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE Soil Jar (EP231X)							
QC201	**25-Jan-2023**	**07-Feb-2023**	24-Jul-2023	✓	**08-Feb-2023**	19-Mar-2023	✓
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE Soil Jar (EP231X)							
QC201	**25-Jan-2023**	**07-Feb-2023**	24-Jul-2023	✓	**08-Feb-2023**	19-Mar-2023	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE Soil Jar (EP231X)							
QC201	**25-Jan-2023**	**07-Feb-2023**	24-Jul-2023	✓	**08-Feb-2023**	19-Mar-2023	✓
EP231P: PFAS Sums							
HDPE Soil Jar (EP231X)							
QC201	**25-Jan-2023**	**07-Feb-2023**	24-Jul-2023	✓	**08-Feb-2023**	19-Mar-2023	✓

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Moisture Content	EA055	1	11	**9.09**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	2	14	**14.29**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	13	**15.38**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	6	**16.67**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	10	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	2	18	**11.11**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
PAH/Phenols (SIM)	EP075(SIM)	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	13	**7.69**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	6	**16.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
PAH/Phenols (SIM)	EP075(SIM)	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	13	**7.69**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	6	**16.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
PAH/Phenols (SIM)	EP075(SIM)	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	13	**7.69**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	6	**16.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	10	**10.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	18	**5.56**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Polychlorinated Biphenyls (PCB)	EP066	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3).
Pesticides by GCMS	EP068	SOIL	In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM Schedule B(3).
TRH - Semivolatile Fraction	EP071	SOIL	In house: Referenced to USEPA SW 846 - 8015 Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40. Compliant with NEPM Schedule B(3).
PAH/Phenols (SIM)	EP075(SIM)	SOIL	In house: Referenced to USEPA SW 846 - 8270. Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3)
TRH Volatiles/BTEX	EP080	SOIL	In house: Referenced to USEPA SW 846 - 8260. Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. Compliant with NEPM Schedule B(3) amended.
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	SOIL	In-house: Analysis of soils by solvent extraction followed by LC-Electrospray-MS-MS, Negative Mode using MRM using internal standard quantitation. Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to a portion of soil which is then extracted with MTBE and an ion pairing reagent. A portion of extract is exchanged into the analytical solvent mixture, combined with an equal volume reagent water and filtered for analysis. Method procedures and data quality objectives conform to US DoD QSM 5.3, table B-15 requirements.

Preparation Methods	Method	Matrix	Method Descriptions
Methanolic Extraction of Soils for Purge and Trap	ORG16	SOIL	In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.
QuECheRS Extraction of Solids	ORG71	SOIL	In house: Sequential extractions with Acetonitrile/Methanol by shaking. Extraction efficiency aided by the addition of salts under acidic conditions. Where relevant, interferences from co-extracted organics are removed with dispersive clean-up media (dSPE). The extract is either diluted or concentrated and exchanged into the analytical solvent.

CHAIN OF CUSTODY RECORD

Sydney Laboratory – Unit F3 Bld.F, 16 Mars Rd, Lane Cove West, NSW 2066 – 02 9900 8400 – EnviroSampleNSW@eurofins.com
sbane Laboratory – Unit 1, 21 Smallwood Pl, Murarrie, QLD 4172 – 07 3902 4600 – EnviroSampleQLD@eurofins.com
Perth Laboratory – Unit 2, 91 Leach Highway, Kewdale WA 6105 – 08 9251 9600 – EnviroSampleWA@eurofins.com
Melbourne Laboratory – 2 Kingston Town Close, Oakleigh, VIC 3166 – 03 8564 5000 – EnviroSampleVic@eurofins.com

Company	Agon	Project №	-	Project Manager	JO
Address	68 Northbourne Ave, Canberra ACT 2600	Project Name	Fairbairn	EDD Format (ESdat, EQuIS, Custom)	ESDAT
Contact Name	John O'Brien	Sampler(s)	KL	Handed over by	K.L
Phone №	0431582323	Email for Invoice	john.o'brien@agonenviro.com.au; finance@agonenviro.com.au;	Email for Results	john.o'brien@agonenviro.com.au
Special Directions	5 Day TAT				
Purchase Order					
Quote ID №	Quotation # 190129AEGA				

Turnaround Time (TAT) Requirements: Overnight (9am)* / 1 Day* / 2 Day* / 3 Day* / 5 Day / Other ( ) — * Surcharges apply

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TAT

№	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))	Analyses	B7A	B13	PFAS Short Chain	PFAS Short Chain ASLP	Jar (Glass)	Jar (HDPE)	EMM Bag	Bag Acid Suphate Soil	Small plastic bottle	PFAS Bottle	Plastic bottle (inorganics)	Amber bottle	Sample Comments / Dangerous Goods Hazard Warning
1	BH101 - 0.1	25/01/23	S		X	X	X	X	1	1							
2	BH101 - 0.3	25/01/23	S				X	X	1	1							
3	BH101 - 0.5	25/01/23	S				X		1	1							
4	BH102 - 0.1	25/01/23	S				X	X	1	1							
5	BH102 - 0.3	25/01/23	S		X	X	X	X	1	1							
6	BH102 - 0.5	25/01/23	S				X		1	1							
7	BH103 - 0.1	25/01/23	S				X		1	1							
8	BH103 - 0.3	25/01/23	S				X	X	1	1							
9	BH103 - 0.5	25/01/23	S		X	X	X	X	1	1							
10	BH104 - 0.1	25/01/23	S				X	X	1	1							
11	BH104 - 0.3	25/01/23	S				X		1	1							
12	BH104 - 0.5	25/01/23	S		X	X	X	X	1	1							
13	BH105 - 0.1	25/01/23	S				X	X	1	1							
14	BH105 - 0.3	25/01/23	S		X	X	X		1	1							
15	BH105 - 0.5	25/01/23	S				X	X	1	1							
16	BH106 - 0.1	25/01/23	S				X	X	1	1							
17	BH106 - 0.3	25/01/23	S				X		1	1							
18	BH106 - 0.5	25/01/23	S		X	X	X	X	1	1							
19	BH107 - 0.1	25/01/23	S				X	X	1	1							
20	BH107 - 0.3	25/01/23	S				X		1	1							
21	BH107 - 0.5	25/01/23	S				X		1	1							
22	BH108 - 0.1	25/01/23	S		X	X	X	X	1	1							
23	BH108 - 0.3	25/01/23	S				X		1	1							
24	BH108 - 0.5	25/01/23	S				X	X	1	1							
25	BH109 - 0.1	25/01/23	S				X	X	1	1							
26	BH109 - 0.3	25/01/23	S				X		1	1							
27	BH109 - 0.5	25/01/23	S		X	X	X	X	1	1							
28	BH110 - 0.1	25/01/23	S				X		1	1							
29	BH111 - 0.1	25/01/23	S				X		1	1							
30	BH112 - 0.1	25/01/23	S		X	X	X	X	1	1							
31	BH113 - 0.1	25/01/23	S				X		1	1							
32	BH114 - 0.1	25/01/23	S				X	X	1	1							
33	BH115 - 0.1	25/01/23	S		X	X	X		1	1							
34	BH116 - 0.1	25/01/23	S				X	X	1	1							
35	BH117 - 0.1	25/01/23	S		X	X	X		1	1							
36	QC201	25/01/23	S		X	X	X		1	1							Please FWD ALS for analysis
37	QC202	25/01/23	S		X	X	X		1	1							
38	QC203	25/01/23	S		X	X			1	1							
39	QC204	25/01/23	S				X		1	1							
40	RB01	25/01/23	S				X							1			
	Total Counts			-	-	-											

Environmental Division
Sydney
Work Order Reference
ES2303331

Telephone : + 61-2-8784 8555

Method of Shipment	Courier (#)	Hand Delivered	Postal	Name	Date __/__/__	Time __:__	
Eurofins | mgt Laboratory Use Only	Received By	L. Boxsell (AG)	SYD | BNE | MEL | PER | ADL | NTL | DRW	Date 27.1.23	Time 11:06	Temperature	27.4
	Received By		SYD | BNE | MEL | PER | ADL | NTL | DRW	Date __/__/__	Time __:__	Report №	

CHAIN OF CUSTODY RECORD

ABN: 50 005 085 521

- ☑ Sydney Laboratory — Unit F3 Bld.F, 16 Mars Rd, Lane Cove West, NSW 2066 — 02 9900 8400 — EnviroSampleNSW@eurofins.com
- ☐ Brisbane Laboratory — Unit 1, 21 Smallwood Pl, Murarrie, QLD 4172 — 07 3902 4600 — EnviroSampleQLD@eurofins.com
- ☐ Perth Laboratory — Unit 2, 91 Leach Highway, Kewdale WA 6105 — 08 9251 9600 — EnviroSampleWA@eurofins.com
- ☐ Melbourne Laboratory — 2 Kingston Town Close, Oakleigh, VIC 3166 — 03 8564 5000 — EnviroSampleVic@eurofins.com

Company	Agon	Project №	-	Project Manager	JO
Sampler(s)	KL	Project Name	JC1120	EDD Format (ESdat, EQuIS, Custom)	ESDAT
Handed over by	K.L	Address	68 Northbourne Ave, Canberra ACT 2600		
Email for Invoice	john.o'brien@agonenviro.com.au; finance@agonenviro.com.au;	Email for Results	john.o'brien@agonenviro.com.au		
Contact Name	John O'Brien	Phone №	0431582323		
Special Directions	1 Day TAT	Purchase Order		Quote ID №	Quotation # 190129AEGA

COPY

Turnaround Time (TAT) Requirements (Default will be 5 days if not ticked): Overnight (9am)* ☑ 1 Day* ☐ 2 Day* ☐ 3 Day* ☐ 5 Day ☐ Other (— * Surcharges apply

№	Client Sample ID	Sampled Date/Time (dd/mm/yy hh:mm)	Matrix (Solid (S) Water (W))	B5	Spike Recovery	BTEX	Jar (Glass)	Soil Trip Blank/Spike	Bag (ENM)	Bag Acid Suphate Soil	Metals plastic bottle	Vial (headspace)	Plastic bottle (500 ml unpreserved)	Amber bottle	Sample Comments / Dangerous Goods Hazard Warning
1	W05 -A	24/01/23		X			1								
2	W05 -B	24/01/23		X			1								
3	W05 -C	24/01/23		X			1								
4	W05 -D	24/01/23		X			1								
5	W05 -E	24/01/23		X			1								
6	W05 -F	24/01/23		X			1								
7	W06 -A	24/01/23		X			1								
8	W06 -B	24/01/23		X			1								
9	W06 -C	24/01/23		X			1								
10	W06 -D	24/01/23		X			1								
1	W06 -E	24/01/23		X			1								
2	W06 -F	24/01/23		X			1								
1	B02 - A	24/01/23		X			1								
2	B02 - D	24/01/23		X			1								
3	QC301	24/01/23		X			1								Pls forward to ALS for analysi
2 4	QC302	24/01/23		X			1								
5	QC303	24/01/23					1								
6	QC304	24/01/23					1								
7	QC305	24/01/23					1								
8	Soil Trip Spike Batch 2023-01-30				X							1			
9	Soil Trip Blank Batch 2023-01-30					X						1			
10															
	Total Counts			-	-										

Method of Shipment	Courier (#)	Hand Delivered	Postal	Name		Date / /	Time :
Eurofins | mgt Laboratory Use Only	Received By: L Boxsell (AER)	SYD | BNE | MEL | PER | ADL | NTL | DRW	Signature	Date 2/1/23	Time 10:50	Temperature 33.5	
	Received By	SYD | BNE | MEL | PER | ADL | NTL | DRW		Date / /	Time :	Report №	

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37.3 chilled.
34.0 -0.9
31.9

Rec - Sydney
AY.
02/2/23 1335 17.7°