



PFAS Treatment Trial

Hi-Quality - 12 Byte Street, Yatala, QLD

Prepared for: Hi-Quality Waste Services Pty Ltd

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Executive Summary

ADE was engaged by Hi-Quality to undertake a PFAS treatment trial using RemBind 100 at Hi-Quality's facility located at 12 Byte Street, Yatala QLD. The trial was undertaken in accordance with their Environmental Authority (EA0002264). Conditions relating to soil treatment and sludge treatment have been captured in this report, ADE understands the water treatment conditions have been captured in a separate report.

Due to the difficulties in obtaining PFAS contaminated soils from the market, trial materials were obtained using per and polyfluorinated alkyl substance (PFAS) aqueous film forming foam (AFFF) contaminated wash water that were being stored in intermediate bulk containers (IBCs) on the site and other non-PFAS contaminated soils that were also already present on site. One batch of soils received from Brisbane Airport, representative of low level PFAS contamination, were also included in the trial.

As a result of the change in approach, ADE undertook a bench trial prior to proceeding with field scale trials, to assess the nature of PFAS contamination in the soils following dosing of soils with wash water. Bench trial samples were mixed with 1%, 3%, and 5% RemBind 100, with undosed control samples also analysed. Results indicated that the soil: water ratio used to prepare the soils resulted in levels of PFAS contamination suitable for the trial, and RemBind 100 was effective in reducing the leachability of PFAS in the samples. A 5% RemBind 100 concentration was chosen as the most effective dosage rate for upscaling to a field trial.

The field trial proceeded using 10 tonne batches of soils available on site, representative of a range of soils, including silty clay, gravelly sand and silty sand. Soils were mixed with the AFFF wash water and left for approximately a week to settle. ADE then attended site to collect samples from each batch prior to treatment with RemBind 100 and remained on site to supervise the addition of Rembind 100 using a specialised excavator mixing bucket. Samples were analysed for PFAS, including Australian Standard leaching procedure (ASLP) and total oxidisable precursor assay (TOPA) as well as a range of potential co-contaminants.

Once RemBind 100 was added, soil batches were left for two days, ADE then collected additional samples for analysis of PFAS, PFAS TOPA and ASLP PFAS TOPA. The results show a comprehensive reduction in leachability for all soil materials. The lowest of the reductions was observed in the clay materials, which could be representative of the difficulty in mixing. It has however shown that it can still be reduced to a level suitable for disposal at a double lined landfill.

In addition, soil samples underwent an aggressive leaching procedure (MEP) to evaluate soils stability in a landfill environment which showed PFAS was only detected in a minority of samples and highlighted RemBind 100 at 5%w/w suitable for long-term immobilisation of PFAS that has been disposed in landfill.

The results of the bench and field scale trials indicated that Rembind 100 is a suitable sorbent for the reduction of leachability of PFAS, and the method applied by Hi-Quality during the field scale trial has been successful in reducing the level of PFAS to allow disposal to a landfill in accordance with the criteria outlined in the NEMP. Emissions monitoring undertaken on stacks EF1 and EF2 during the field scale trial resulted in some minor detections of PFAS, including some non-target PFAS that were not present in the soil testing (C11-C14 PFCAs). A worst-case scenario using the human tolerable daily intakes (TDIs) outlined in the PFAS National Environment Management Plan (NEMP) 2.0 (2020), for an adult breathing in the stack emissions, indicates that the level of PFAS emitted from the stacks is low and acceptable.

During the PFAS treatment trial, Hi Quality received sludge to treat as a part of the program. The solid component of the sludge was tested and PFAS concentrations were found to be below landfill acceptance criteria in all samples. As such the sludge was not treated with RemBind 100 before landfill disposal.

The results of both the bench trial and field scale trial have shown RemBind 100 as an effective sorbent in reducing the leachability of PFAS by between 92% and 98%. Testing for PFAS ASLP TOPA (detectable PFAS found using the Total Oxidisable Precursor Assay applied to the water generated from the Australian Standard Leaching Procedure using an unbuffered reagent water) showed that the leaching of PFAS from the soil had been reduced to below the limit for disposal to landfill.

A primary objective of the works was to provide Hi-Quality with a complete solution to meet the requirements of Permit EA0002264. The permit requires that Hi-Quality adequately characterise the immobilisation performance of RemBind 100 on PFAS-impacted soils and the solid component of sludge waste for potential offsite disposal. As per the results presented, each of the permit conditions have been complied with and the performance of RemBind 100 has been shown to be adequate in treating PFAS-impacted soils.

1 Introduction

To ensure its contextual integrity, this report must be read in its entirety and should not be copied, distributed, or referred to in part only.

1.1 Background

ADE Consulting Group Pty Ltd (ADE) was engaged by Hi-Quality Waste Services Pty Ltd (Hi-Quality), to report on a PFAS Treatment Trial undertaken at the Hi-Quality Yatala facility, in accordance with its Environmental Authority (EA0002264). The facility is located at 12 Byte Street, Yatala QLD and will hereafter be referred to as 'the site'.

Per- and poly-fluoroalkyl substances (PFAS) pose a significant and growing challenge for major infrastructure projects globally and a scalable remediation economic model is needed that will likely need to draw on multiple technologies. Immobilisation/stabilisation is a widely recognised soil remediation technique used for addressing PFAS contamination. This approach involves treating the contaminated soil to reduce the mobility and bioavailability of PFAS compounds, thereby minimising their potential impact on the environment and human health.

The immobilisation approach typically involves the addition of amendments or binders to the contaminated soil. These amendments can include materials such as activated carbon, clay minerals, or proprietary formulations specifically designed for PFAS immobilisation. The mechanisms of immobilisation vary depending on the specific amendment used but generally involve processes such as adsorption, precipitation, or chemical reactions. This results in the formation of less mobile compounds or complexes. In the case of PFAS, the mechanism frequently used in immobilisation include a variety of sorbative processes.

The scope of this project was designed to support Hi-Quality's treatment program and comprised a benchtop trial followed by a field-scale trial. This assesses critical factors related to PFAS impacted soil treatment technologies which are scalable and allow a value-for-money approach to immobilising PFAS contaminated soils and solid components of sludge.

1.2 Environmental Authority Conditions

A summary of the EA0002264 conditions and ADE's scope relating to each of the relevant conditions is provided in Table 1-1.

Table 1-1: EA0002264 Conditions and ADE Scope

Number	Condition	Section in this Report
T1	A PFAS treatment trial for PFAS contaminated wastes and residues may be undertaken limited to the following waste types and treatment processes: a) Stabilisation and immobilisation of PFAS contaminated soil and the solid component of sludge waste using chemical fixation reagent RemBind.	Section 5 - Bench Trial and Section 6 - Field Scale Trial Section 7 – Sludge Treatment
T3	PFAS contaminated sludge may be treated under the PFAS treatment trial provided: a) The sludge undergoes a process to separate the material into solid and liquid components upon acceptance; and b) Both the solid and liquid components comply with the acceptance limits for solid and liquid waste in the PFAS treatment trial conditions; and contaminated liquid waste; and d) The solid component is treated in accordance with conditions relating to PFAS contaminated soils and the solid component of sludge.	Section 7 – Sludge Treatment (liquid component of sludge was not within the ADE's scope of this study)
T4	Waste containing PFAS must not be subject to any evaporative, thermal or other process or management likely to release PFAS to the atmosphere.	Section 6.5- Emissions Monitoring

Number	Condition	Section in this Report
T5	The duration of the trial must not exceed twenty-four (24) consecutive calendar months, after which the activity of treating PFAS contaminated wastes and residues must cease.	Appendix E – Notification to DES.
T6	The administering authority must be notified in writing of the date of commencement of the trial and within 24 hours of the trial commencing.	Appendix E– Notification to DES.
T7	Stabilisation and immobilisation of PFAS contaminated soil and the solid component of sludge waste must occur within a dedicated area of building 3 as shown in <i>Appendix A – Figures</i> .	Section 6.1.3 Site Inspection. Figure 2 in Appendix A - Figures.
T9	PFAS contaminated soil and the solid component of sludge waste treated on site must not contain more than: a) 5 mg/L of total PFAS compounds measured using a leach solution of pH 7 under Australian Standard Leaching Procedure (ASLP) with paired standard analysis and Total Oxidisable Precursor Assay (TOPA); or b) 50 mg/kg total PFAS Compounds.	Section 6.2– Pre-Treatment Results
T11	All PFAS contaminated waste must be clearly labelled to identify that it contains PFAS contaminants.	Section 6.1.3 Site Inspection..
T12	All PFAS contaminated waste must be loaded, unloaded, treated or stored on a concrete surface that is: a) Treated and maintained to ensure an impervious barrier between the PFAS contaminants and the concrete at all times; and b) Bunded to contain any potential seepage or spillage.	Section 6.1.3 Site Inspection.
T13	All PFAS contaminated soil and solid components of sludge must be mixed using a pugmill or alternative effective physical mixing device operated to achieve: a) Size reduction and/or screening of the solid waste to achieve consistency; and b) Full and consistent mixing of the chemical fixation reagent (RemBind) Stabilisation product with the soil and/or solid waste particles.	Section 7
T14	All PFAS contaminated waste accepted for treatment must be accompanied by the following: a) Safety data sheets and product information for any products suspected of creating the PFAS contamination; and b) Details on how the waste was generated; and c) Analysis results for qualities or co-occurring contaminants that may affect the treatment process including: i. For soils and solids: Analysis results for pH, alkalinity, ammonium, total recoverable hydrocarbons, fraction of organic carbon, cation exchange capacity, particle size to Australian Standard AS 1289, dry density and moisture content to Australian Standard AS1289, and acid sulfate soil screening to Australian Standard AS 4969 and as per requirements of the Queensland Acid Sulfate Soil Management Guideline; and ii. For liquids: Analysis results for total recoverable hydrocarbons, total organic carbon, chemical oxygen demand, biochemical oxygen demand, total nitrogen, chlorinated hydrocarbons, major anions and cations, pH, suspended solids, chlorophyll 'a' (surface waters only) and dissolved iron and aluminium for any waters obtained from groundwater or surface water potentially affected by acid sulfate soil; and iii. where there are known, or potentially other co-occurring contaminants suspected to be present that may adversely affect the treatment process; those co-occurring contaminants.	Section 2– Preparation of Material for the Trial Section 6.2 – Pre-Treatment Results
T15	Where the proportion of organic fluorine mass in the sum of PFAS standard analysis and TOPA explains less than 60 percent of the measured TOF mass, additional analytical determinations to investigate the potential source of unexplained TOF mass must be undertaken using techniques commercially available. *Note: This is not required where the waste has previously been characterised by this method.	Section 6.2.4– TOF/QTOF
T16	The trial of stabilisation and immobilisation of PFAS contaminated soil and solid components of sludge waste using chemical fixation reagent RemBind must: a) Incorporate a measurement that confirms the effectiveness of mixing of the waste/soil with the chemical fixation reagent (RemBind); and b) Assess the effectiveness of the chemical fixation reagent (RemBind) in reducing the longterm leachability of the treated waste and soil; and	Section 6.4 Post Treatment Results

Number	Condition	Section in this Report
	c) Record full details of the trial including waste type, waste origin, characterisation results for the waste/soil, chemical fixation reagent (RemBind) dose rate, mixing process and fixation duration; and d) Avoid dilution of the PFAS contaminated waste/soil with other soil, substances, media or wastes as a means of achieving waste acceptance criteria, prior to or following the treatment; and e) Analyse the fixated waste/soil material using the modified multiple extraction procedure that incorporates all the PFAS analysis techniques used to characterise the pre-treated waste for PFAS and total organic fluorine; and f) Evaluate and report the fixation efficiency for the treated PFAS contaminated waste/soil; and g) Evaluate and report compliance of each sequential leach with: - The landfill acceptance criteria prescribed in Table 7 of the PFAS National Environmental Management Plan dated May 2020, or any later version; and - The landfill acceptance criteria for the landfill(s) intended to accept the treated material; and - Keep records of the disposal of all treated wastes, treated soils and any residues.	
T19	PFAS stack emissions monitoring must be undertaken once throughout the PFAS treatment trial and must include, but not be limited to: - Sampling and analysis of emission sources to determine the PFAS extended suite containing 28 compounds; and - Quantifying the PFAS precursors by applying the total oxidisable precursor analysis (TOPA); and - Monitoring stack emissions from the two-point sources after the filtering devices (Building 1 and Building 2 combined; and Building 3); and - Monitoring must be conducted by an appropriately qualified person when the waste material containing PFAS compounds are processed in the building.	Section 6.5 Emissions Monitoring
T20	An independent report prepared by an appropriately qualified person that includes findings, conclusions, and recommendations, must be submitted to the administering authority within eight (8) weeks of completion of the trial. The report must include: - A summary of the monitoring data obtained in accordance with any of the monitoring requirements of the trial conditions; and - An evaluation/explanation of the data from monitoring, including graphical representations showing relevant limits and trends.	This report

1.3 Project Objectives

The primary objective of the works is to provide Hi-Quality with a complete solution for meeting the requirements of Permit EA0002264 in order to adequately characterise the immobilisation performance of RemBind 100 on PFAS-impacted soils and the solid component of sludge waste for potential offsite disposal.

1.4 Scope of Works

The scope of work required to achieve the objectives of the project involved the following:

- Prepare necessary SWMS and additional documentation required to access the site;
- Pre-characterisation of materials for an assessment of their suitability for the study;
- Conduct bench trials to assess the appropriate sorbent dose and producing treatment specifications for the field-scale trial;
- Collect primary samples from each treatment batch and conducting associated QAQC to assess PFAS concentrations in batch materials prior to treatment;
- Provide advice and site supervision, including emissions stack testing, during treatment of soil batches with sorbent;

- Collect primary samples from each treatment batch and conduct associated QAQC to measure PFAS concentrations in stockpiled materials after treatment;
- Submission of all samples to primary and secondary NATA-accredited laboratories; and
- Preparing a concise report for submission to relevant stakeholders, along with the raw data to address the requirements of the permit.

2 Preparation of Material for the Trial

Due to the current market for disposal of PFAS--contaminated soils in south-east Queensland and restrictions on the movement of soils from sites listed on the Contaminated Land Register (CLR) and the Environmental Management Register (EMR), Hi-Quality was not able to source sufficiently contaminated soil within the timeframe required by the trial. Therefore, trial materials were manufactured using materials already present at the site.

2.1 Dose Water

2.1.1 Screening

The site received several IBCs containing “PFAS AFFF contaminated wash water” that were suspected to contain PFAS. On 15 September 2023, a Senior Environmental Engineer from ADE attended site to evaluate these waters for use in the trial. A shake test was used to prioritise samples for lab analysis. Samples of approximately 10-20 mL of water from each IBC were taken using a disposable bailer and placed into sample jars. Jars were shaken and a visual and photographic record were taken. Samples with significant foaming after shaking were assumed to contain significant PFAS concentrations and submitted for laboratory analysis to determine PFAS content.



Photograph 1: Example of shake test conducted on IBC water – minimal foaming.



Photograph 2: Example of shake test conducted on IBC water – significant foaming.

2.1.2 Laboratory Analysis

Based on the foaming of the screening samples, 10 samples (W001-W010) were selected for laboratory analysis of PFAS (full suite). Results are provided in Appendix C - Analytical Results. Samples W001, W002 and W003 were identified with the highest concentrations of PFAS, with total PFAS of 1,249 µg/L, 683 µg/L and 11,045 µg/L respectively. These samples were further analysed for TOPA, results are provided in Appendix C - Analytical Results. The total PFAS post TOPA was <100 µg/L, 30,780 µg/L and 28,570 µg/L respectively. The laboratory noted that excessive foaming of the samples created difficulties with the TOPA method.

Samples were also analysed for hydrocarbons, with minimal (<60 mg/L total TRH) detection noted within W001-W003.

2.1.3 Water Selection

Based on the results of the IBC water analysis, the following IBCs were chosen for use in dosing uncontaminated soils to prepare for the trial:

- IBC1 (sample W001):

The IBC was received on 23rd May 2022 from Ampol Lytton. The material was noted to be generated from a caustic washout of AFFF residue within pipework.

- IBC2 (sample W002):

The IBC was received on 4th August 2023 from Ampol Banksmeadow. The material was noted to be generated from a creek pump-out that contained AFFF residue from a spill.

- IBC3 (sample W003):

The IBC was received on the same day as IBC2 and was noted to be sourced from the same activity and site.

2.2 Soils

2.2.1 Non-PFAS Impacted Soils

During the site visit on 15 September, stockpiles of soil material were inspected and assessed for use in the treatment trial. Two stockpiles were present:

- SP1 – Sandy clay, high plasticity, grey to dark brown, slightly moist:
Hi-Quality stated that the material was received across three deliveries on 23 August 2023 as potentially PFAS-contaminated NDD from the Coomera Connector Motorway Upgrade. There was no water phase to be separated from the NDD. Upon further testing of the loads delivered, no PFAS was found in the samples taken by Hi-Quality.
- SP2 – Clayey sand, coarse to medium-grained, orange/brown, with some dark brown-black clay:
Hi-Quality stated that the material is regularly received to utilise it in various areas within the facility.

Ten representative samples were collected from the two stockpiles of which 4 were selected for laboratory analysis for PFAS. Only 1 sample returned a slight detection for perfluoroheptanoic acid (PFHpA) at 49 µg/kg. All other samples and analytes were below the LOR. Results are provided in Appendix C - Analytical Results.

2.2.2 Low level PFAS Contaminated Soils

In addition to the non-PFAS impacted soils present at the site as outlined above, additional soils from Brisbane Airport with low level PFAS contamination were imported to the site and were selected for use in the trial.

Hi-Quality stated that the soil was generated from a borehole drilling program around Brisbane Airport Corporation's site. The soil was tested and stored temporarily in drums while awaiting laboratory results. The testing was undertaken as part of a legal case between Brisbane Airport Corporation and Airservices Australia

over an alleged historical Aqueous Film Forming Foam (AFFF) site contamination. After testing had confirmed the presence of PFAS, the drums were sent to Hi Quality on 21 and 22 September 2023.

The initial dataset for these soils is provided in Appendix C - Analytical Results. Additional analysis prior to treatment was undertaken as part of the trial. The highest total PFAS (TOPA) leachability was noted in sample S12/QC1 (assumed to be a quality control sample of SC12), with a result of 4.0 and 4.2 µg/L

2.2.3 Soil Selection

Based on the results of the soil analysis and objectives of the trial to demonstrate applicability to a range of soil types, ADE proceeded into a bench trial stage with the following soil types:

- Uncontaminated - Sandy clay, high plasticity, firm, grey to brown (**soil type 1**);
- Uncontaminated - Gravelly Sand, yellow/brown, coarse grained, with angular gravels (**soil type 2**);
- Uncontaminated - Clayey sand, medium to coarse grained, dark brown (**soil type 3**); and
- Lightly impacted (BAC soil): Silty sand, medium to coarse grained, dark brown, with trace amounts of clay.

Soil type 2 was also in addition to the soils observed on 15 September and was not tested for PFAS prior to the trial. Hi-Quality stated that the material was received on 15 September 2023 following the sampling completion. It was generated on the site of HMAS Moreton – a naval barracks in Bulimba. Historically AFFF has been used on site, and as part of a pre-construction contamination assessment completed in February 2023, low-level PFAS has been detected. An updated consultant's report completed in July 2023 found that no PFAS was present in the excavated material sent to Hi-Quality on 15 September.

2.3 Sorbent Selection

RemBind 100 is a powdered sorbent, which contains blend of ingredients including aluminium hydroxide, activated carbon and clays, that bind to per- and polyfluoroalkyl substances (PFAS) in soil. Refer to Appendix D – RemBind 100 Information Package.

S. Kabiri and M.J. McLaughlin (2020) investigated the persistence of PFAS binding using a mixed-mode remediation agent (RemBind). Under repeated leaching, the effects of competing ions and temperature extremes were studied (see Appendix D). The sorbent strongly retained PFAS and reduced desorption and leaching from remediated soils by 92 to 99.9%. There were no detrimental effects on desorption of PFASs from temperature extremes or changes in ionic strength. In remediated soils, effects of competing ions were also absent or minimal. While short-term laboratory desorption experiments cannot exactly mimic long-term field conditions, results obtained by Kabiri and McLaughlin (2020) provide site owners and regulatory authorities with a level of confidence that PFASs binding by RemBind is predicted to be persistent in the long term.

3 Assessment Criteria

The bench and field trials were conducted with reference to the following documents:

- Australian Standard AS4482.2-2005, Guide to the sampling and investigation of potentially contaminated soil;
- Australian Standard AS1141.3.1-2021, Methods for sampling and testing aggregates;
- IWRG 702: Industrial Waste Resource Guidelines - Soil Sampling (VIC EPA, 2009)
- HEPA Australia and New Zealand, PFAS National Environmental Management Plan (NEMP) 2.0 (2020);
- The Environmental Protection Regulation, Schedule 9 (DES, 2019), Regulated waste and waste that is not regulated waste;
- Model Operating Conditions, ERA 60 – Waste Disposal (DES, 2019)
- Waste Reduction and Recycling Regulation 2023 (Queensland Government, 2023); and
- Queensland Acid Sulfate Soil Management Guideline.

3.1 DES 2022: Overview of regulated waste categorisation,

Department of Environment and Science (DES) 2022, *Overview of regulated waste categorisation*, (ESR/2019/4749) specifies that solid and liquid waste containing PFAS is subject to a threshold level of zero. This zero-threshold level implies that the waste should contain less than the level of reporting (LOR) limit under the following conditions:

- The testing employs a NATA-accredited test method for that particular parameter; and
- The chosen test method has an LOR that represents the best achievable sensitivity for that parameter, with the lowest LOR.

In instances where testing is conducted and the test result falls below the LOR, it is regarded as equivalent to zero. The categorisation thresholds for tested solid and liquid wastes are presented in Table 3-1 and Table 3-2, as shown below.

Table 3-1: Categorisation thresholds for solid tested waste

Item #	Substance	Not regulated (mg/kg)	Category 2 regulated waste (mg/kg)	Category 1 regulated waste (mg/kg)
Specific Persistent Organic Pollutants (Pops)				
35	Per- and poly-fluoroalkyl substances (PFAS)	0	–	>0

Table 3-2: Categorisation thresholds for liquid tested waste

Item #	Substance	Not regulated (µg/L)	Regulated (µg/L) Default category applies
Specific Persistent Organic Pollutants (Pops)			
35	Per- and poly-fluoroalkyl substances (PFAS)	0	>0

3.2 PFAS National Environmental Management Plan 2.0

Item T16-g(i) of the EA permit states that the results of each sequential leach must be evaluated in accordance with the landfill acceptance criteria as prescribed in Table 7 of the PFAS National Environmental Management Plan (2020). The PFAS National Environmental Management Plan (NEMP) offers nationally agreed-upon

guidance for managing PFAS contamination in the environment, with a focus on preventing the spread of contamination.

Landfill acceptance criteria outlined in Table 3-3 provides screening criteria for total PFAS concentration and leachable fraction in the Australian Standard Leaching Procedure (ASLP) for assessing PFAS-contaminated soil sites.

Table 3-3: Summary of Landfill criteria for total concentrations of PFAS in soil and ASLP Criteria

Soil Criteria	PFAS (mg/kg)		PFAS (µg/L)	
	Total		ASLP	
	PFOS + PFHxS	PFOA	PFOS + PFHxS	PFOA
Double Composite Lined	50	50	7	56
Clay/single Composite Lined	50	50	0.7	5.6
Unlined	20	50	0.07	0.56

4 Analytical Approach

The samples collected from the site were analysed at the following NATA accredited laboratories:

- **Primary Laboratory** – Eurofins Environmental Testing Australia Pty Ltd.
Unit 1, 21 Smallwood Place, Murarrie QLD 4172
- **Secondary Laboratory** - ALS Environmental Division Brisbane
2 Byth Street, Stafford QLD 4053

The scope of analysis:

- PFAS extended suite – 30 PFAS;
- TOPA - PFAS extended suite – 30 PFAS;
- ASLP – PFAS extended suite (pH7);
- Total fluorine;
- Total organic fluorine;
- Multiple extraction procedure;
- pH and cation exchange capacity (CEC);
- Organic carbon;
- Ammonium (NH₄⁺);
- Total recoverable hydrocarbons (TRH);
- Benzene, toluene, ethylbenzene, xylene and naphthalene (BTEXN).

The analysis was undertaken by primary and secondary laboratories, which are NATA accredited for the listed analysis. The limits of reporting (LORs) and accreditation details are provided in the laboratory certificates in Appendix C– Analytical Results. By considering PFAS as the primary contaminant of concern in this trial, PFAS-associated limits of reporting are presented in the following tables.

4.1 PFAS Total Concentration

Table 4-1: PFAS (TC) Scope of Analysis and Associated Limit of Reporting (LOR)

Analytes	Laboratory Analysis	
	ALS	Eurofins
Perfluoroalkyl Sulfonic Acids	TC (mg/kg)	TC (mg/kg)
Perfluorobutane sulfonic acid (PFBS)	0.0002	0.005
Perfluoropentane sulfonic acid (PFPeS)	0.0002	0.005
Perfluorohexane sulfonic acid (PFHxS)	0.0002	0.005
Perfluoroheptane sulfonic acid (PFHpS)	0.0002	0.005
Perfluorooctane sulfonic acid (PFOS)	0.0002	0.005
Perfluorodecane sulfonic acid (PFDS)	0.0002	0.005
Perfluoroalkyl Carboxylic Acids		
Perfluorobutanoic acid (PFBA)	0.001	0.005
Perfluoropentanoic acid (PFPeA)	0.0002	0.005
Perfluorohexanoic acid (PFHxA)	0.0002	0.005
Perfluoroheptanoic acid (PFHpA)	0.0002	0.005
Perfluorooctanoic acid (PFOA)	0.0002	0.005
Perfluorononanoic acid (PFNA)	0.0002	0.005
Perfluorodecanoic acid (PFDA)	0.0002	0.005
Perfluoroundecanoic acid (PFUnDA)	0.0002	0.005
Perfluorododecanoic acid (PFDoDA)	0.0002	0.005
Perfluorotridecanoic acid (PFTriDA)	0.0002	0.005
Perfluorotetradecanoic acid (PFTeDA)	0.0005	0.005
Perfluoroalkyl Sulfonamides		

Perfluorooctane sulfonamide (FOSA)	0.0002	0.005
N-Methyl perfluorooctane sulfonamide (MeFOSA)	0.0005	0.005
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	0.0005	0.005
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	0.0005	0.005
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	0.0005	0.005
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	0.0002	0.01
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	0.0002	0.01
Fluorotelomer Sulfonic Acids		
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	0.0005	0.005
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.0005	0.01
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.0005	0.005
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	0.0005	0.005
PFAS Sums		
Sum of PFAS	0.0002	0.05
Sum of PFHxS and PFOS	0.0002	0.005
Sum of PFAS (WA DER List)	0.0002	0.01

4.2 Total Oxidisable Precursor Assay (TOPA)

Table 4-2: PFAS ASLP - TOPA Scope of Analysis and Associated Limit of Reporting (LOR)

Analytes	Laboratory Analysis (mg/kg)
Perfluoroalkyl Sulfonic Acids	Eurofins
Perfluorobutane sulfonic acid (PFBS)	0.005
Perfluoropentane sulfonic acid (PFPeS)	0.005
Perfluorohexane sulfonic acid (PFHxS)	0.005
Perfluoroheptane sulfonic acid (PFHpS)	0.005
Perfluorooctane sulfonic acid (PFOS)	0.005
Perfluorodecane sulfonic acid (PFDS)	0.005
Perfluorobutanoic acid (PFBA)	0.005
Perfluoropentanoic acid (PFPeA)	0.005
Perfluorohexanoic acid (PFHxA)	0.005
Perfluoroheptanoic acid (PFHpA)	0.005
Perfluorooctanoic acid (PFOA)	0.005
Perfluorononanoic acid (PFNA)	0.005
Perfluorodecanoic acid (PFDA)	0.005
Perfluoroundecanoic acid (PFUnDA)	0.005
Perfluorododecanoic acid (PFDoDA)	0.005
Perfluorotridecanoic acid (PFTrDA)	0.005
Perfluorotetradecanoic acid (PFTeDA)	0.005
Perfluorooctane sulfonamide (FOSA)	0.005
N-Methyl perfluorooctane sulfonamide (MeFOSA)	0.005
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	0.005
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	0.005
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	0.005
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	0.01
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	0.01
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	0.005
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.01
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.005
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	0.005
Sum of PFAS	0.05
Sum of PFHxS and PFOS	0.005
Extractable Organofluorine (mg F/kg)	0.5

4.3 Scope of Analysis PFAS Leachable Concentrations

Table 4-3: Preliminary stockpile and leachable concentrations scope of analysis and associated limit of reporting

Analytes	Laboratory Analysis	
	ALS	Eurofins
Perfluoroalkyl Sulfonic Acids	ASLP (µg/L)	ASLP (µg/L)
Perfluorobutane sulfonic acid (PFBS)	0.02	0.01
Perfluoropentane sulfonic acid (PFPeS)	0.02	0.01
Perfluorohexane sulfonic acid (PFHxS)	0.01	0.01
Perfluoroheptane sulfonic acid (PFHpS)	0.02	0.01
Perfluorooctane sulfonic acid (PFOS)	0.01	0.01
Perfluorodecane sulfonic acid (PFDS)	0.02	0.01
Perfluoroalkyl Carboxylic Acids		
Perfluorobutanoic acid (PFBA)	0.1	0.05
Perfluoropentanoic acid (PFPeA)	0.02	0.01
Perfluorohexanoic acid (PFHxA)	0.02	0.01
Perfluoroheptanoic acid (PFHpA)	0.02	0.01
Perfluorooctanoic acid (PFOA)	0.01	0.01
Perfluorononanoic acid (PFNA)	0.02	0.01
Perfluorodecanoic acid (PFDA)	0.02	0.01
Perfluoroundecanoic acid (PFUnDA)	0.02	0.01
Perfluorododecanoic acid (PFDoDA)	0.02	0.01
Perfluorotridecanoic acid (PFTTrDA)	0.02	0.01
Perfluorotetradecanoic acid (PFTeDA)	0.05	0.01
Perfluoroalkyl Sulfonamides		
Perfluorooctane sulfonamide (FOSA)	0.02	0.05
N-Methyl perfluorooctane sulfonamide (MeFOSA)	0.05	0.05
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	0.05	0.05
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	0.05	0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	0.05	0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	0.02	0.05
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	0.02	0.05
Fluorotelomer Sulfonic Acids		
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	0.05	0.01
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.05	0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.05	0.01
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	0.05	0.01
PFAS Sums		
Sum of PFAS	0.01	0.1
Sum of PFHxS and PFOS	0.01	0.01
Sum of PFAS (WA DER List)	0.02	0.05

4.4 Total Organic Fluorine (TOF)

The use of Extractable Organic Fluorine (EOF) / Adsorbable Organic Fluorine (AOF) / Total Organic Fluorine (TOF) is better suited to samples in the higher range of PFAS detects ($\Rightarrow 1000\text{ppb}$). The use of EOF/AOF and TOF is directly relatable to matrix type. EOF is used for soil/solid samples and AOF is used for water samples. This methodological aspect aids in correctly isolating the fluorine through organic extraction. Without this soil/solid and water samples would be subject to interference when being analysed on the CIC instrument. TOF is reserved for product matrixes, the TOF process does not include any extraction as it is assumed that interference risk is low and that any fluorine will be more than likely organically bound. For this assessment, EOF was used.

4.5 Scan for Unknowns (QTOF LCMSMS)

Quadrupole Time-of-Flight Mass Spectrometry (QToF-MS) offers a practical solution for identifying elusive PFAS compounds in environmental samples. Its ability to perform Non-Targeted Analysis (NTA) is particularly beneficial for detecting a wide spectrum of PFAS, including those not previously catalogued. The technology's precision in differentiating between similar molecular structures allows for the identification of unique PFAS variants.

5 Bench Trial

5.1 Bench Trial Soil Preparation

Prior to undertaking a field-scale trial, ADE opted to complete a bench trial to:

- Confirm the correct mixing rate of IBC water with soil to prepare for the trial; and
- Confirm the optimal dosing rate of RemBind 100.

To prepare for the bench trial, buckets of contaminated soils were prepared by mixing the selected soils and IBC water.

5.1.1 Soil: Water Ratios

The objective was to create soils representative of the higher range of contamination that may be encountered in material to be treated by the process. The upper limit of soils that may be treated under the authorisation is:

- 50 mg/kg total PFAS; and
- 5 mg/L leachable PFAS.

Contamination at or above these concentrations is rarely seen on contaminated sites. A more realistic concentration is approximately 1 mg/kg of total PFAS measured by the TOP assay. It is important to show that the method works for a range of soils, so the target contamination was 0.1 to 10 mg PFAS/kg soil.

Despite the difficulties faced by the laboratory in carrying out the TOP assay on the AFFF wash water, two of the samples had total PFAS concentration of approximately 30 mg/L. To achieve contaminated soil in the target range it was decided to mix the wash water with the soil at a 1:10 ratio to result in a soil concentration of approximately 3 mg/kg.

5.1.2 Preparation Method

To prepare contaminated soils for the treatment trial, the following methodology was adopted:

1. 10 kg of soil representing the 3 uncontaminated soil types and the BAC soils (as outlined in Section 2.2.3) were weighed in a bucket.
 - a. Bucket 1: Sandy clay, high plasticity, firm, brown, moist
 - b. Bucket 2: Gravelly Sand, yellow/brown, coarse grained, with angular gravels, wet
 - c. Bucket 3: Clayey sand, medium to coarse grained, dark brown, moist
 - d. Bucket 4: Silty sand, medium to coarse grained, dark brown, with trace amounts of clay (BAC soil - lightly impacted).
2. 1L of water was collected from each IBC 1, 2 and 3 (refer to section 2.1.3) using dedicated sample containers. Water was mixed into the buckets as follows:
 - a. IBC1 > Bucket 1
 - b. IBC2 > Bucket 2
 - c. IBC3 > Bucket 3
 - d. No water was added to Bucket 4
3. The contents of the buckets were homogenised by mixing, and set aside for one week, allowing contaminated water to bind to the soils.

5.2 Bench Trial

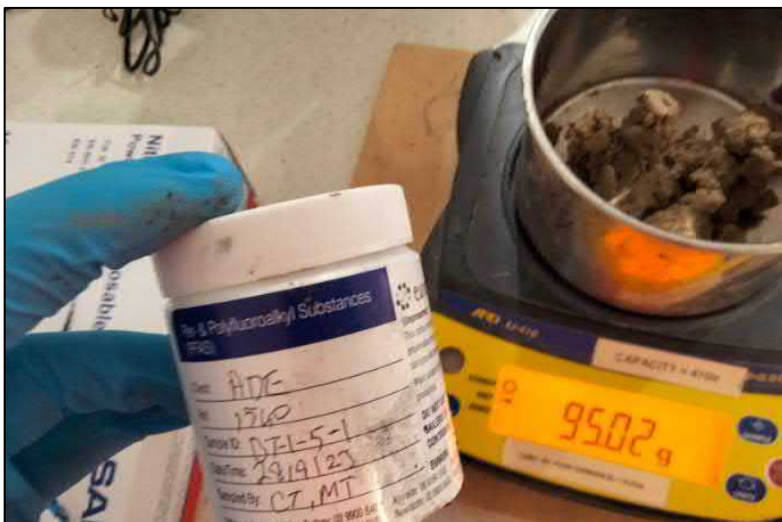
ADE attended site on 28 September 2023 to complete the bench trial. In addition to the 3 buckets prepared as above, lightly contaminated soils from the airport site were also included (as Bucket 4).

The bench trial was undertaken at the Hi-Quality Yatala site, and Eurofins, a NATA (National Association of Testing Authorities) accredited facility, was used for the subsequent sample analysis.

5.2.1 Methodology

The trial encompassed the evaluation of 4 application rates of RemBind 100 (0% (control), 1%, 3% and 5%), with each test conducted in triplicate. Consequently, a total of 48 samples were generated for PFAS analysis. The following methodology was implemented:

1. Buckets 1-4 were homogenised by mixing.
2. Sample jars were labelled in accordance with the bucket number, treatment dosage (i.e % RemBind 100), and replicate number. For example, BT-1-5-2 is Bench Trial bucket 1, 5% RemBind 100, Replicate #2
3. Soils were added to each jar to make up 100 g total
4. RemBind was added to sample jars at different level of dosage as below.
 - a. 0 g for control replicates
 - b. 1 g for 1% treatment replicates
 - c. 3 g for 3% treatment replicates
 - d. 5 g for 5% treatment replicates.
5. Jars were shaken to mix, if possible. Clay soils (bucket 1) had to be mixed in a separate container by hand, using dedicated nitrile gloves, as shown in the photographs below.
6. One additional sample per bucket was collected for analysis of TRH to assess the presence of co-contaminants.



Photograph 3: Weighing of clay soils (Bucket 1) for bench trial



Photograph 4: Bench trial sample preparation



Photograph 5: Mixing of RemBind with clay soils (Bucket 1) for bench trial

5.2.2 Bench scale Results

Table 5-1 provides a summary of the average of total PFAS recorded within each soil sample. The complete results are provided in Appendix B – Results Tables.

Leachability Table 53 was calculated by arithmetic reversal of the ASLP method, assuming that the total concentration measured by the TOP assay was indeed the total concentration of PFAS present. The equation used is:

$$\text{leachability \%} = \frac{(20 \times \text{ASLP})}{\text{total concentration}}$$

Due to the preferential partitioning of the PFAS to the air-water interface, the ASLP method has been shown in some circumstances to be more effective at extracting PFAS from soils than the typical methanol extraction method. Thus, leachabilities > 100% are not uncommon in untreated soils.

Table 5-1 Pre-RemBind 100 Treatment, µg/kg total concentration

Bucket #	Sum PFAS	Sum TOPA	% Unquantified	Comment
1	5.00	5.00	-	the result was ND, LOR of 5 used
2	147.63	1,736.23	91%	
3	2,525.40	6,289.33	60%	
4	8.23	25.33	68%	

Table 5-2, Table 5-3 and Table 5-4 provide a summary of the leachate results for the post-RemBind 100 applications at dosage rates that vary between 0 and 5%.

Table 5-2: ASLP - TOPA results µg/L

RemBind 100%				
Bucket #	0% (control)	1%	3%	5%
1	0.53	0.03	0.78	0.04
2	101.31	28.26	10.21	13.06
3	192.14	56.21	21.07	10.53
4	7.64	0.09	1.23	0.04

Table 5-3: Leachability as % of total available PFAS (TOPA)

RemBind 100%				
Bucket #	0% (control)	1%	3%	5%
1	212%	12%	311%	17%
2	117%	33%	12%	15%
3	61%	18%	7%	3%
4	603%	7%	97%	3%

Table 5-4: Reduction in leachability compared to control (0%)

RemBind 100%			
Bucket #	1%	3%	5%
1	94%	-47%	92%
2	72%	90%	87%
3	71%	89%	95%
4	99%	84%	99%

5.2.3 Discussion

The elevated PFAS contamination thought to be present in IBC01 was not observed in Bucket 1. Results from this bucket are indicative of very low concentrations of contamination and highlight the variability of leaching results at low concentrations.

Table 5-4 shows that for the two samples (1 and 4) with low-level contamination, the leachability for 3% RemBind 100 was not reduced in the same way as for other treatments and the more contaminated soils. This was consistent in bucket 4 but due to an outlier result in bucket 1. This may be due to a range of factors, but in light of the results for the other samples, was not considered to materially affect the bench trial.

Overall, if bucket 1 is excluded, the results show the increasing reduction of leachability with the increasing addition of RemBind 100. This is further illustrated in Figure 1 below. The sum of PFAS ASLP (Figure 2) for the untreated controls was >150 µg/L which decreased to < 50µg/L with 1% RemBind 100 treatments and decreased further to < 20 µg/L with 3% and 5% RemBind 100 treatments. Figure 2 shows that the decrease in

leachability was more pronounced in samples where the initial PFAS was greatest (Buckets 2 and 3) and that the leachability decreased with increasing RemBind 100. On the basis of these results, a 5% RemBind 100 ratio was selected for the field scale trial.

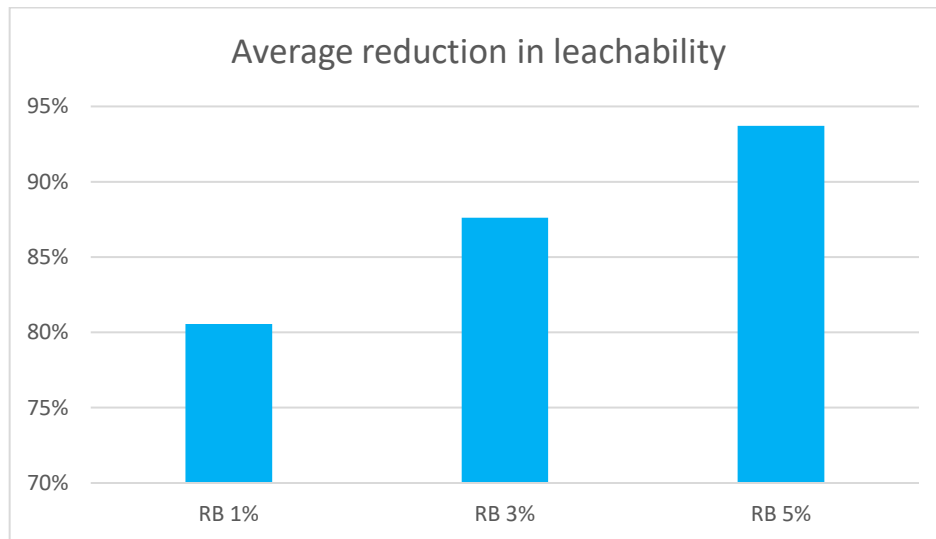


Figure 1 The reduction of leachability with increasing RemBind 100 concentration

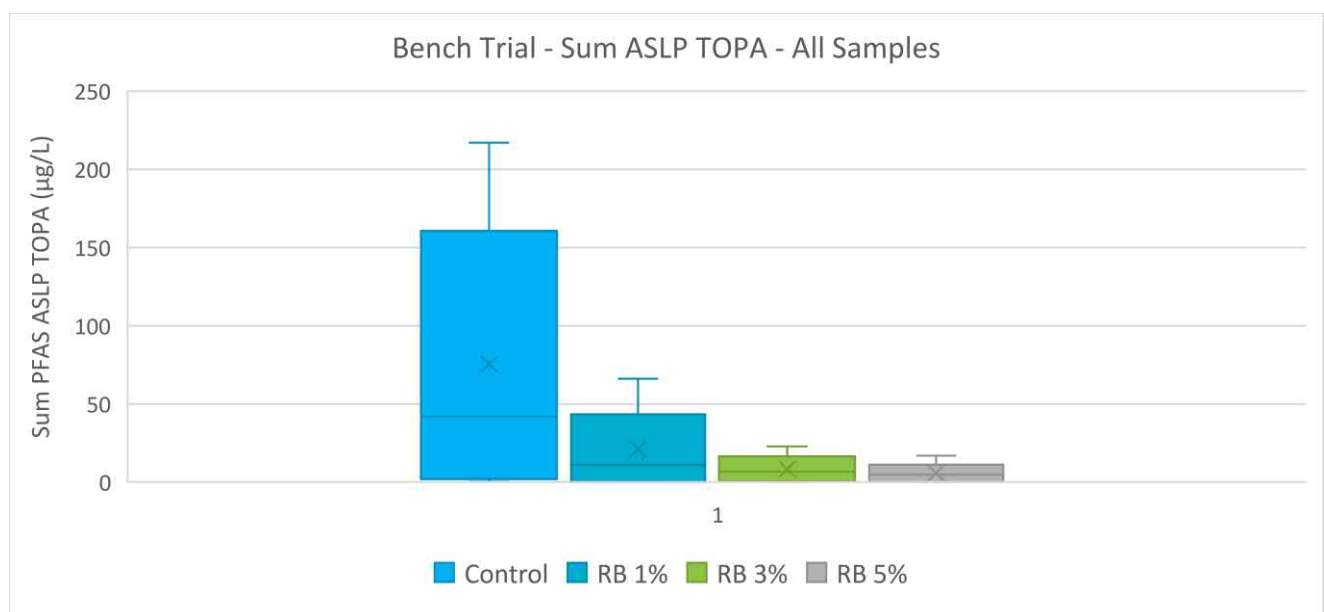


Figure 2 The reduction of leachability with the increasing RemBind 100 concentration.

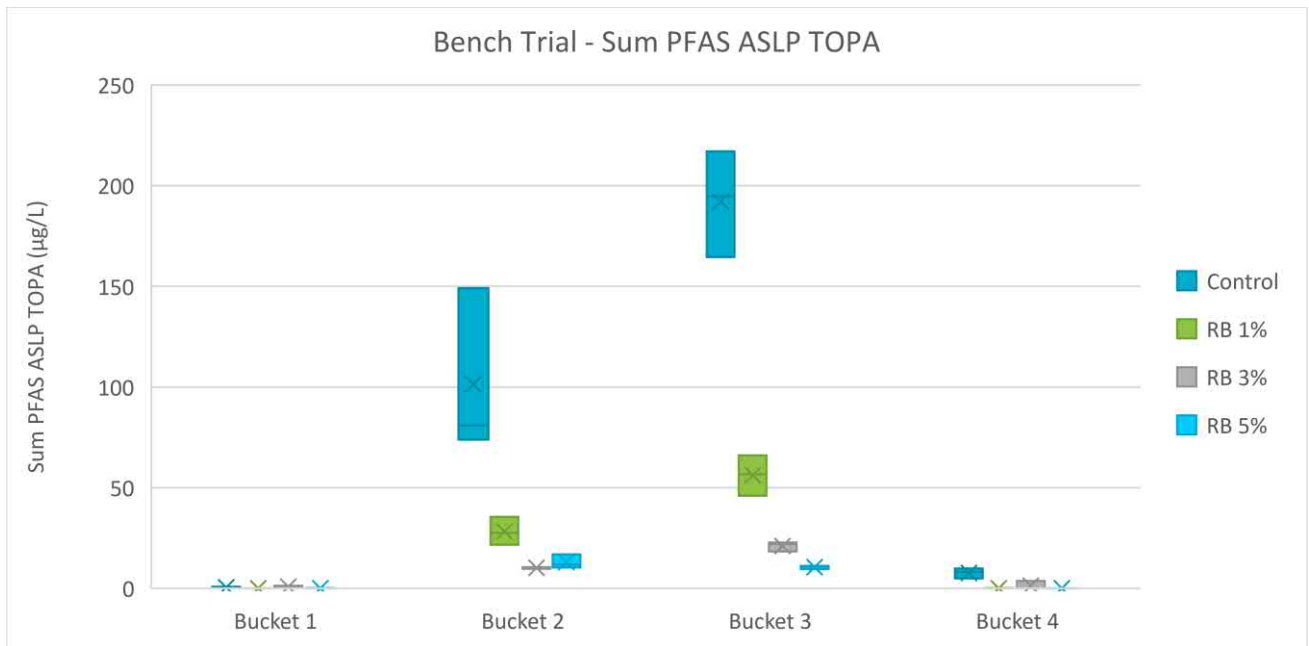


Figure 3 Sum PFAS ASLP TOPA per sample

6 Field Scale Trial

6.1 Preparation

Based on the results of the bench trial, ADE proceeded to a field-scale trial.

6.1.1 Soil:Water Ratio

The results of the bench trial revealed that a 1:10 ratio of AFFF wash water to soil resulted in a post-TOPA sum PFAS of 1.7 mg/kg and 6.3 mg/kg for IBC2 and IBC3, respectively. This was above the target concentration of 1 mg/kg. Therefore, for the field scale trial, the ratio of AFFF wash water to soil was reduced to 1:50. That is, 200 L from IBC2 and IBC3 was added to 10 tonnes of soil.

The airport soil was not dosed.

6.1.2 Procedure

On Thursday, 12 October 2023, batches of soil were prepared for the field scale trial as follows:

1. 10 tonne batches of soil type 1 (silty clay), soil type 2 (gravelly sand) and airport soils (silty sand) were placed into soil bays within the dedicated Building 3 at the Hi-Quality site. 10 tonne batches were weighed on the site weighbridge.
 - a. Silty clay was placed in soil bay 1 (**BATCH 1**)
 - b. Gravelly sand was placed in soil bay 3 (**BATCH 2**)
 - c. Silty sand (airport material) was placed in soil bay 2 (**BATCH 3**)
2. 200 L of water from IBC2 was mixed with gravelly sand in soil bay 4
3. 200 L of water from IBC3 was mixed with silty clay in soil bay 1
4. Soils were mixed with the onsite machinery and mixed again daily over the following week (see photographs 6-8 below).

6.1.3 Site inspection

ADE attended the site on Monday, 16 October, to inspect the batches and treatment area. At the time of the site inspection, the 10 tonne batches of soil were being thoroughly mixed/homogenised using an excavator bucket with mixer attachment. The following conditions of permit EA0002264 are noted to have been addressed:

Table 6-1:EA0002264 Conditions and ADE Scope

Number	Condition	Site Observations
T7	Stabilisation and immobilisation of PFAS contaminated soil and the solid component of sludge waste must occur within a dedicated area of building 3 as shown in <i>Appendix A – Figures</i> .	Soil preparation and treatment was undertaken in the designated building as required by the permit.
T12	All PFAS contaminated waste must be loaded, unloaded, treated or stored on a concrete surface that is: c) Treated and maintained to ensure an impervious barrier between the PFAS contaminants and the concrete at all times; and d) Bunded to contain any potential seepage or spillage.	Soil batches were kept in the designated area on a concrete surface which was epoxy lined and bunded.
T19	PFAS stack emissions monitoring must be undertaken once throughout the PFAS treatment trial and must include, but not be limited to: d) Sampling and analysis of emission sources to determine the PFAS extended suite containing 28 compounds; and	Stack testing was undertaken during batch preparation on 17 October 2023, and during batch treatment on 18 October 2023. The report has been attached as Appendix F – Stack Emissions Monitoring.

Number	Condition	Site Observations
	e) Quantifying the PFAS precursors by applying the total oxidisable precursor analysis (TOPA); and f) Monitoring stack emissions from the two-point sources after the filtering devices (Building 1 and Building 2 combined; and Building 3); and g) Monitoring must be conducted by an appropriately qualified person when the waste material containing PFAS compounds are processed in the building.	



Photograph 6: Field-scale batches of soil prior to RemBind 100 treatment.



Photograph 7: Homogenisation of soil batches with excavator prior to treatment.



Photograph 8: PFAS treatment area, delineated and signed.

6.2 Pre-Treatment Results

On 17 October 2023, ADE attended the site to supervise the RemBind 100 application and mixing. Prior to the sorbent application, ADE collected samples from each batch of material for analysis of:

- PFAS full suite
- PFAS Total Oxidisable Precursor Assay (TOPA)
- ASLP followed by PFAS TOPA
- Total Organic Fluorine
- pH, Cation Exchange Capacity and alkalinity
- Total Recoverable Hydrocarbons (TRH)
- Ammonium
- Particle Size
- pH fox
- Qualitative Scan for PFAS unknowns using liquid chromatography quadrupole time-of-flight mass spectrometry (LCQTOF-MS).

Five primary samples were collected from each of the 3 batches, with one inter-laboratory and one intra-laboratory duplicate collected per batch.

All soil samples were collected using dedicated nitrile gloves and placed in suitable analyte containers involving clean glass jars lined with Teflon lids for general chemical analysis and Teflon-free HDPE jars for PFAS analysis. Each sample collected for chemical analysis was placed within a pre-chilled esky or cooler box with ice packs or equivalent to maintain samples at approximately 4°C. The original chain of custody (CoC) form was enclosed with the samples and dispatched to NATA-accredited analytical laboratories.

6.2.1 Other Contaminants

Soil analysis was carried out for co-occurring contaminants that may affect the treatment process. These co-contaminants included pH, alkalinity, ammonium, total recoverable hydrocarbons, fraction of organic carbon, cation exchange capacity, particle size, dry density, moisture content and acid sulfate soil screening. For liquids the analytes included total recoverable hydrocarbons, total organic carbon, chemical oxygen demand, biochemical oxygen demand, total nitrogen, chlorinated hydrocarbons, major anions and cations, pH, suspended solids, chlorophyll 'a', dissolved iron and aluminium for any waters obtained from groundwater or surface water potentially affected by acid sulfate soil. Where there are known, or potentially other co-occurring contaminants suspected to be present that may adversely affect the treatment process; those co-

occurring contaminants should also be analysed.

The results of TRH within the pre-treatment batch samples reported concentrations predominantly below laboratory detect with a maximum concentration of TRH fraction C₁₀-C₄₀ of 341 mg/kg. the alkalinity of the samples ranged from 350-770 mg/kg. Ammonium ranged from 13-51 mg/kg, with the highest concentrations noted in Batch 2. The pH FOX results were generally highly alkaline amongst the samples in batch 1, with acidic readings within batch 2 and neutral readings in batch 3. Results are presented in Appendix B – Results Tables

6.2.2 Soil Classification

Particle size analysis was undertaken on three samples from each batch. Results for each batch were averaged to give an accurate soil description for each batch:

- Batch 1
 - Silty CLAY: high plasticity, with coarse sand and trace gravels, brown, moist
- Batch 2
 - Clayey GRAVEL and Gravelly SAND: coarse grain, angular gravels, medium plasticity, brown, wet
- Batch 3
 - Clayey SAND: coarse grain, medium plasticity, with silt and gravels, dark brown, moist

6.2.3 PFAS

Full results tables are provided in Appendix B – Results Table. See Table 6-2 for PFAS, PFAS TOPA and ASLP PFAS TOPA results.

Table 6-2 below summarises the average total PFAS concentrations for PFAS, PFAS TOPA and ASLP PFAS.

Table 6-2 Pre-treatment average concentration (n=5)

Batch	Sum PFAS (µg/kg)	Sum PFAS (TOPA) (µg/kg)	% Precursors	ASLP Sum PFAS TOPA (µg/L)	Leachability
1	317.56	403.62	21%	15.73	78%
2	19.56	138.8	86%	8.87	128%
3	79.8	81.32	2%	2.41	59%

6.2.4 TOF / QTOF

Total Organic Fluorine (TOF) analysis was requested on pre-treatment samples to assess the potential for unquantified precursors. The laboratory reported Extractable Organic Fluorine (EOF), due to the matrix of the samples. Refer to Section 4.4 for further information.

All samples reported non-detect for EOF at an LOR of 0.5 mg F/kg. This may be roughly converted to a TOPA Sum PFAS concentration of 830 µg/kg by dividing by 60% because fluorine comprises an average of 60% of the mass of PFAS. The maximum Sum PFAS TOPA was 515 µg/kg (sample B1-1). It is therefore considered that there was no unquantified TOF mass.

As a conservative measure and due to time constraints, 2 samples from each batch of soils were sent for non-targeted analysis by Eurofins using liquid chromatography quadrupole time-of-flight mass spectrometry (LCQTOF-MS). The results are provided in Appendix C- Analytical Results and are generally consistent with C6 AFFF. In each batch the analysis identified fluorinated chain lengths ranging from C4 to C8 for a series of fluorotelomer betaines, alkyl betaines, sulfonic acids, propanoic acids and sulfonamides.

Batch 2 contained two fluorinated pesticides, fipronil and hexaflumuron. Both of these have short (C2) fluorinated chain lengths and will not be detectable in the TOP assay. The concentration of these is assessed as being low because no unquantified TOF mass was identified.

6.3 Sorbent Application

The results of the bench trial indicated that a 5% RemBind 100 application was optimal for the stabilisation of PFAS. Taking into account the 10-tonne batches of soil and the addition of 200L of water for batches 1 and 2, a mass of 537 kg of RemBind 100 was calculated to achieve 5%. Batch 3 (10 T Airport soils) did not have added water, so 526 kg of RemBind 100 was added. A tolerance of +/- 10% was adopted, or in other words, 4.5% to 5.5% by weight.

RemBind 100 was applied to the stockpiles on (17 October 2023) in 500 kg bulk bags, resulting in a 5% (+/- 10%) application rate. The sorbent was mixed through the stockpile using a mixing bucket attached to an excavator (see photographs 9 –12).

The mixing bucket was able to effectively homogenise soil and RemBind 100. Large fragments of deleterious material, such as metal, were removed during this process.



Photograph 9: Mixing bucket.



Photograph 10: Application of RemBind 100 to 'batch 3' (Airport soils).



Photograph 11: Application of RemBind 100 to Batch 3' Airport soils.



Photograph 12: Batch 3 (Airport soils) following treatment, showing reduction in particle size and homogeneity of material.

6.4 Post Treatment Results

ADE attended the site again on Thursday, 19 October 2023, after allowing 2 days for soils to settle after sorbent application. ADE collected samples from each batch of material for analysis of:

- PFAS full suite
- PFAS Total Oxidisable Precursor Assay (TOPA)
- ASLP followed by PFAS TOPA

Five primary samples were collected from each of the 3 batches, with one inter-laboratory and one intra-laboratory duplicate collected per batch.

All soil samples were collected using dedicated nitrile gloves and placed in suitable analyte containers involving clean glass jars lined with Teflon lids for general chemical analysis and Teflon-free HDPE jars for PFAS analysis. Each sample collected for chemical analysis was placed within a pre-chilled esky or cooler box with ice packs

or equivalent to maintain samples at approximately 4°C. The original chain of custody (CoC) form was enclosed with the samples and dispatched to NATA-accredited analytical laboratories.

6.4.1 PFAS Results

Full results tables are provided in Appendix B – Results Table. See Tables 12- 15 for PFAS, PFAS TOPA and ASLP PFAS TOPA results.

Table 6-3 below summarises the average total PFAS concentrations for PFAS TOPA and ASLP PFAS. The leachability was compared with the pre-treatment Sum PFAS (TOPA) as it is recognised that treatment with RemBind will also reduce the detection of PFAS via methanol extraction.

Table 6-3 Post-treatment, µg/kg average concentration (n=5)

Batch	Sum PFAS (TOPA) (µg/kg)	ASLP Sum PFAS TOPA (µg/L)	Leachability	Reduction in Leachability (Fixation)	Suitable Landfill
1	188.74	1.29	6%	92%	Double-lined
2	66.74	0.28	4%	97%	Single-Lined
3	49.6	0.052	1%	98%	Unlined

6.4.2 Leachability

A comparison of pre-treatment and post-treatment leachability is provided in Figure 4 below.

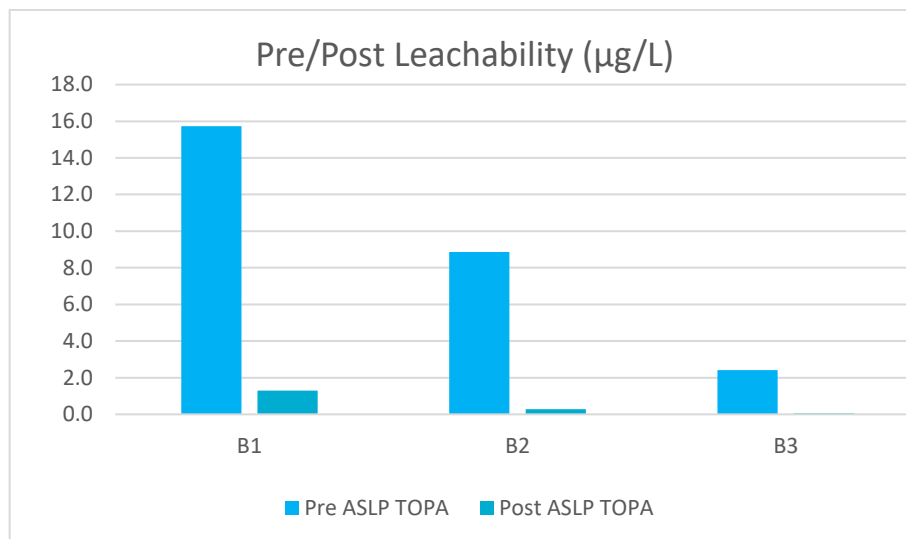


Figure 4 leachability pre and post RemBind treatment

The results show a comprehensive reduction in leachability for all soil materials. The lowest of the reductions was observed in the clay materials, which could be representative of the difficulty in mixing. It has however shown that it can still be reduced to a level suitable for disposal at a double lined landfill.

6.4.3 Multiple Extraction Procedure (MEP)

The MEP leaching procedure is summarised as follows.

- Day 1 (termed EP): The leaching procedure commences by adding 400ml of high purity water to 25g sample portion, the pH is checked to determine if it falls within the desirable starting range of pH 4.8-5.2. Using an incremental approach, the pH is adjusted down to the desired range using 0.5 M HCl. Once the sample pH is stable in the desired range (or the maximum allowable 4mL HCl/g of sample has been added) the leachate bottle/vessel will be tumbled for 24 hours.

- Days 2-10 (termed MEP): The leaching procedure continues by adding 500ml of Synthetic Acid Rain Extracting Fluid, 0.1% 60/40 H₂SO₄/HNO₃ (SAREF). The samples will then on each daily cycle tumble for 24 hours.

The sum of PFAS concentrations in solution were below detection limits except for samples B1-1 and B1-3 on days 1 and 3 which showed a maximum concentration of 0.96µg/L. The results show that leachability of PFAS is very low even over multiple extraction events and confirms the work of Kabiri and McLaughlin (2020).

The soil samples underwent an aggressive leaching procedure to evaluate whether the stabilised soils would remain stable in a landfill environment. As PFAS was only detected in a minority of samples. This highlights the methodology is suitable for long-term landfill disposal.

6.5 Emissions Monitoring

ADE commissioned Trinity Consultants Australia (Trinity) to conduct monitoring of air emissions from the Hi-Quality Waste Treatment Services facility on 17-18 October 2023 to meet condition EA T4 (Waste containing PFAS must not be subject to any evaporative, thermal or other process or management likely to release **PFAS** to the atmosphere). Monitoring was undertaken during normal operational conditions from stack EF1 and EF2.

A copy of the Trinity report (Trinity 2023) is included in Appendix F – Stack Emission Monitoring. A summary of the findings is presented below:

Table 6-4: Emission Monitoring Results, Oct 2023

Compound	Unit	Stack 1 (EF1)		Stack 2 (EF2)	
		Measured Emission	Criteria Release Limit	Measured Emission	Criteria Release Limit
Particulates	mg/Nm ³	0.39	50	0.55	50
	g/s	0.0025	0.315	0.0063	0.535
Volatile organic compound (n-propane eq)	mg/Nm ³	0.3	40	0.12	40
	g/s	0.0019	0.250	0.0013	0.427
Total heavy metals	mg/Nm ³	0.0381	1	0.0139	1
	g/s	0.000248	0.006	0.000161	0.11
Stack velocity (exit) (Minimum)	m/s	18.7	3	20.2	3

Measured emissions from Stack 1 and Stack 2 were below criteria release limits for each compound measured.

Table 6-5: PFAS Emission Monitoring Results, Oct 2023

Compound	Unit	Stack 1 (EF1)	Stack 2 (EF2)
		Measured Emission	Measured Emission
PFBA (375-22-4)	ng/Nm ³	-*	9.99
PFHpA (375-85-9)	ng/Nm ³	-*	0.56
PFOA (335-67-1)	ng/Nm ³	-*	2.46
PFUdA (2058-94-8)	ng/Nm ³	1.82	0.58
PFDoA (307-55-1)	ng/Nm ³	-*	0.50
PFTTrDA (72629-94-8)	ng/Nm ³	-*	0.37
PFTeDA (376-06-7)	ng/Nm ³	-*	0.34
PFBS (375-73-5)	ng/Nm ³	0.18	0.19
PFHxS (355-46-4)	ng/Nm ³	-*	0.13
PFOS (1763-23-1)	ng/Nm ³	0.13	0.28

Compound	Unit	Stack 1 (EF1)	Stack 2 (EF2)
		Measured Emission	Measured Emission
6:2 FTS (27619-97-2)	ng/Nm ³	0.30	0.19

-*- Sample below level of detection.

The sum of detectable PFAS in EF1 was 2.43 ng/Nm³ and in EF2 was 15.59 ng/Nm³. The TOP assay did not detect any PFAS due to the laboratory (NMI) having difficulty in processing the filters. The levels of reporting were raised above the likely concentration of PFAS.

The stack emissions were carried out at a low detection limit of less than 1 ng/Nm³. As a result, several non-target PFAS were also detected in the stack gas (C11-C14 PFCAs). These are not present in C6 AFFF and were not detected in the soil testing, but are present at low concentrations in urban environments.

A worst-case scenario can be generated using default parameters from the NEPM that assumes a 70 kg adult breathing air at a rate of 20 m³/day spends 24 hours on the roof of the treatment facility breathing nothing but the exhaust from the treatment process. In this case their total intake of PFAS would be 15.4 ng/Nm³ x 20 m³/day = 308 ng/day. A 70 kg adult would have an intake of 0.0045 µg/kg_{bw}/day for total PFAS. This 4.5 times lower than the FSANZ 2017 TDI from NEMP v 2.0 of 0.02 µg/kg_{bw}/day for PFOS. On this basis it is considered that the air emissions from the stack are low and acceptable.

7 Sludge Treatment

During the PFAS treatment trial, Hi Quality received sludge to treat as a part of the program and monitored PFAS levels in water and solid components of the sludge following the separation process.

The dewatering process allowed the solid component to settle by gravity and pumped the supernatant from the top of the pits. The pumped water was transferred to the internal PFAS wastewater treatment plant (WWTP) in batches (treatment of the wastewater is outside of the scope of this report).

The solid component of the sludge was tested and PFAS concentration was found to be below landfill acceptance criteria in all samples. Batch numbers and associated solid samples with laboratory report numbers are listed below and results are provided in Table 7-1 and Appendix C – Analytical Results.

Table 7-1 Batch numbers and Lab report numbers for received sludge.

Sample Number	Lab Report Number	Wastewater Batch Number
BN0693	EB2237288	PFAS WWTP B004
BN0705	EB2300086	PFAS WWTP B004
BN0709	EB2300086	PFAS WWTP B004
BN0710	EB2300086	PFAS WWTP B004
BN0742	EB2302026	PFAS WWTP B005
BN0762	EB2303246	PFAS WWTP B005
BN0912	EB2314575	PFAS WWTP B008
BN0925	EB2314575	PFAS WWTP B009
BN1006	EB2321032	PFAS WWTP B010, B011, B012, B013, B014
BN1044	EB2323324	PFAS WWTP B015
BN1113	EB2328891	PFAS WWTP B015

7.1 Sludge Treatment Landfill Criteria

Landfill acceptance criteria for total PFAS concentration and leachable fraction within PFAS-contaminated soils are presented in Table 7-2. 76 soil samples were analysed, of which 48 had ASLP undertaken, and the leachate analysed. All results were below the criteria for unlined landfill.

Table 7-2 Results for sludge samples

Lab Report Number	Sample Number	Matrix	Unit	Sample Date	PFOS +PFHxS	PFOA	TOPA PFOS +PFHxS	TOPA PFOA
EB2323324	EB2323324-001	Soil	mg/kg	28/07/2023	0.0413	0.0010	0.0285	0.0023
EB2323324	EB2323324-002	Soil	mg/kg	28/07/2023	-	-	-	-
EB2323324	EB2323324-003	Soil	mg/kg	28/07/2023	-	-	-	-
EB2323324	EB2323324-004	Soil	mg/kg	28/07/2023	0.0409	0.0019	0.0457	0.0056
EB2323324	EB2323324-005	Soil	mg/kg	28/07/2023	0.0334	0.0019	0.0307	0.0075
EB2323324	EB2323324-006	Soil	mg/kg	31/07/2023	0.0274	0.0008	0.0419	0.0036
EB2323324	EB2323324-007	Soil	mg/kg	31/07/2023	-	-	-	-
EB2323324	EB2323324-008	Soil	mg/kg	31/07/2023	0.0272	0.0009	0.0303	0.0065
EB2302026	EB2302026-001	Soil	mg/kg	25/01/2023	0.0093	0.0010	0.0076	0.0024
EB2302026	EB2302026-002	Soil	mg/kg	25/01/2023	0.0079	0.0009	0.0079	0.0025
EB2302026	EB2302026-003	Soil	mg/kg	25/01/2023	-	-	-	-
EB2302026	EB2302026-004	Soil	mg/kg	25/01/2023	-	-	-	-
EB2302026	EB2302026-005	Soil	mg/kg	25/01/2023	0.0097	0.0010	0.0055	0.0020
EB2302026	EB2302026-006	Soil	mg/kg	25/01/2023	0.0072	0.0024	0.0069	0.0014
EB2302026	EB2302026-007	Soil	mg/kg	25/01/2023	0.0182	0.0035	0.0166	0.0029
EB2314575	EB2314575-001	Soil	mg/kg	15/05/2023	0.0107	0.0004	0.0108	0.0030
EB2314575	EB2314575-001	Water (Leachate)	µg/L	15/05/2023	0.16	0.02	0.13	<0.10
EB2314575	EB2314575-002	Soil	mg/kg	15/05/2023	0.0074	0.0005	0.0097	0.0026
EB2314575	EB2314575-002	Water (Leachate)	µg/L	15/05/2023	0.15	0.02	<0.10	<0.10
EB2314575	EB2314575-003	Soil	mg/kg	15/05/2023	-	-	-	-
EB2314575	EB2314575-004	Soil	mg/kg	15/05/2023	0.0066	0.0005	0.0114	0.0030
EB2314575	EB2314575-004	Water (Leachate)	µg/L	15/05/2023	0.18	0.02	<0.10	<0.10
EB2314575	EB2314575-005	Soil	mg/kg	15/05/2023	-	-	-	-
EB2314575	EB2314575-006	Soil	mg/kg	15/05/2023	-	-	-	-
EB2314575	EB2314575-007	Soil	mg/kg	15/05/2023	0.0114	0.0005	0.0108	0.0030
EB2314575	EB2314575-007	Water (Leachate)	µg/L	15/05/2023	0.33	0.02	0.21	<0.10
EB2314575	EB2314575-008	Soil	mg/kg	15/05/2023	-	-	-	-
EB2314575	EB2314575-009	Soil	mg/kg	15/05/2023	0.5100	0.0008	0.2900	<0.10
EB2314575	EB2314575-009	Water (Leachate)	µg/L	15/05/2023	0.01	0.03	0.01	0.00

Lab Report Number	Sample Number	Matrix	Unit	Sample Date	PFOS +PFHxS	PFOA	TOPA PFOS +PFHxS	TOPA PFOA
EB2314575	EB2314575-010	Soil	mg/kg	15/05/2023	-	-	-	-
EB2314575	EB2314575-011	Soil	mg/kg	15/05/2023	0.0138	0.0009	0.0150	0.0030
EB2314575	EB2314575-011	Water (Leachate)	µg/L	15/05/2023	0.27	0.03	0.17	<0.10
EB2314575	EB2314575-012	Soil	mg/kg	15/05/2023	0.0176	0.0008	0.0281	0.0037
EB2314575	EB2314575-012	Water (Leachate)	µg/L	15/05/2023	0.32	0.03	0.19	<0.10
EB2314575	EB2314575-013	Soil	mg/kg	15/05/2023	-	-	-	-
EB2314575	EB2314575-014	Soil	mg/kg	15/05/2023	0.0113	0.0007	0.0110	0.0035
EB2314575	EB2314575-014	Water (Leachate)	µg/L	15/05/2023	0.20	0.02	<0.10	<0.10
EB2328891	EB2328891-001	Soil	mg/kg	14/09/2023	-	-	-	-
EB2328891	EB2328891-002	Soil	mg/kg	14/09/2023	0.0165	0.0008	0.0152	0.0027
EB2328891	EB2328891-002	Water (Leachate)	µg/L	14/09/2023	0.33	0.04	0.11	<0.10
EB2328891	EB2328891-003	Soil	mg/kg	14/09/2023	-	-	-	-
EB2328891	EB2328891-004	Soil	mg/kg	14/09/2023	-	-	-	-
EB2328891	EB2328891-005	Soil	mg/kg	14/09/2023	-	-	-	-
EB2328891	EB2328891-006	Soil	mg/kg	14/09/2023	0.0107	0.0006	0.0078	0.0019
EB2328891	EB2328891-006	Water (Leachate)	µg/L	14/09/2023	0.21	0.01	<0.10	<0.10
EB2328891	EB2328891-007	Soil	mg/kg	14/09/2023	0.0162	0.0008	0.0211	0.0028
EB2328891	EB2328891-007	Water (Leachate)	µg/L	14/09/2023	0.40	0.04	0.13	<0.10
EB2328891	EB2328891-008	Soil	mg/kg	14/09/2023	-	-	-	-
EB2328891	EB2328891-009	Soil	mg/kg	14/09/2023	-	-	-	-
EB2328891	EB2328891-010	Soil	mg/kg	14/09/2023	-	-	-	-
EB2321032	EB2321032-001	Soil	mg/kg	10/07/2023	0.0311	0.0020	0.0444	0.0030
EB2321032	EB2321032-001	Water (Leachate)	µg/L	10/07/2023	0.28	0.02	0.21	<0.10
EB2321032	EB2321032-002	Soil	mg/kg	10/07/2023	0.0300	0.0013	0.0493	0.0028
EB2321032	EB2321032-002	Water (Leachate)	µg/L	10/07/2023	0.38	0.04	0.35	<0.10
EB2321032	EB2321032-003	Soil	mg/kg	10/07/2023	0.0388	0.0027	0.0536	0.0032
EB2321032	EB2321032-003	Water (Leachate)	µg/L	10/07/2023	0.35	0.04	<0.01	<0.01
EB2321032	EB2321032-004	Soil	mg/kg	10/07/2023	0.0247	0.0018	0.0450	0.0030
EB2321032	EB2321032-004	Water (Leachate)	µg/L	10/07/2023	0.25	0.02	0.32	<0.10
EB2321032	EB2321032-005	Soil	mg/kg	10/07/2023	0.0354	0.0028	0.0540	0.0037
EB2321032	EB2321032-005	Water (Leachate)	µg/L	10/07/2023	0.40	0.04	0.38	<0.10

Lab Report Number	Sample Number	Matrix	Unit	Sample Date	PFOS +PFHxS	PFOA	TOPA PFOS +PFHxS	TOPA PFOA
EB2321032	EB2321032-006	Soil	mg/kg	10/07/2023	0.0294	0.0024	0.0202	0.0033
EB2321032	EB2321032-006	Water (Leachate)	µg/L	10/07/2023	0.42	0.04	0.37	<0.10
EB2321032	EB2321032-007	Soil	mg/kg	10/07/2023	0.0171	0.0006	0.0214	0.0029
EB2321032	EB2321032-007	Water (Leachate)	µg/L	10/07/2023	0.32	0.03	0.31	<0.10
EB2321032	EB2321032-008	Soil	mg/kg	10/07/2023	0.0177	0.0006	0.0246	0.0034
EB2321032	EB2321032-008	Water (Leachate)	µg/L	10/07/2023	0.36	<0.04	0.31	<0.10
EB2321032	EB2321032-009	Soil	mg/kg	10/07/2023	0.0367	0.0034	0.0368	0.0044
EB2321032	EB2321032-009	Water (Leachate)	µg/L	10/07/2023	0.39	0.04	0.29	<0.10
EB2303246	EB2303246-001	Soil	mg/kg	7/02/2023	0.0078	0.0010	0.0098	0.0045
EB2303246	EB2303246-001	Water (Leachate)	µg/L	7/02/2023	0.06	0.03	<0.10	<0.10
EB2303246	EB2303246-002	Soil	mg/kg	7/02/2023	0.0094	0.0010	0.0094	0.0040
EB2303246	EB2303246-002	Water (Leachate)	µg/L	7/02/2023	0.08	0.03	<0.10	<0.10
EB2303246	EB2303246-003	Soil	mg/kg	7/02/2023	-	-	-	-
EB2303246	EB2303246-003	Water (Leachate)	µg/L	7/02/2023	-	-	-	-
EB2303246	EB2303246-004	Soil	mg/kg	7/02/2023	0.0097	0.0009	0.0107	0.0184
EB2303246	EB2303246-004	Water (Leachate)	µg/L	7/02/2023	0.10	0.03	<0.10	<0.10
EB2303246	EB2303246-005	Soil	mg/kg	7/02/2023	-	-	-	-
EB2303246	EB2303246-005	Water (Leachate)	µg/L	7/02/2023	-	-	-	-
EB2303246	EB2303246-006	Soil	mg/kg	7/02/2023	0.0094	0.0012	0.0099	0.0184
EB2303246	EB2303246-006	Water (Leachate)	µg/L	7/02/2023	0.13	0.03	<0.10	<0.10
EB2303246	EB2303246-007	Soil	mg/kg	7/02/2023	-	-	-	-
EB2303246	EB2303246-007	Water (Leachate)	µg/L	7/02/2023	-	-	-	-
EB2303246	EB2303246-008	Soil	mg/kg	7/02/2023	0.0052	0.0008	0.0062	0.0026
EB2303246	EB2303246-008	Water (Leachate)	µg/L	7/02/2023	0.12	0.03	<0.10	<0.10
EB2300086	EB2300086-001	Soil	mg/kg	4/01/2023	0.0234	0.0005	0.0276	0.0067
EB2300086	EB2300086-001	Water (Leachate)	µg/L	4/01/2023	0.53	0.02	<0.50	<0.50
EB2300086	EB2300086-002	Soil	mg/kg	4/01/2023	0.0166	0.0013	<0.0129	<0.0129
EB2300086	EB2300086-002	Water (Leachate)	µg/L	4/01/2023	0.54	0.06	<0.50	<0.50
EB2300086	EB2300086-003	Soil	mg/kg	4/01/2023	0.0222	0.0019	<0.0130	<0.0130
EB2300086	EB2300086-003	Water (Leachate)	µg/L	4/01/2023	0.29	0.08	<0.50	<0.50
EB2300086	EB2300086-004	Soil	mg/kg	4/01/2023	0.0294	0.0020	<0.0131	<0.0131

Lab Report Number	Sample Number	Matrix	Unit	Sample Date	PFOS +PFHxS	PFOA	TOPA PFOS +PFHxS	TOPA PFOA
EB2300086	EB2300086-004	Water (Leachate)	µg/L	4/01/2023	0.37	0.08	<0.50	<0.50
EB2300086	EB2300086-005	Soil	mg/kg	4/01/2023	0.0202	0.0018	<0.0131	<0.0131
EB2300086	EB2300086-005	Water (Leachate)	µg/L	4/01/2023	0.29	0.08	<0.50	<0.50
EB2300086	EB2300086-006	Soil	mg/kg	4/01/2023	0.0140	0.0014	0.0121	0.0934
EB2300086	EB2300086-006	Water (Leachate)	µg/L	4/01/2023	0.29	0.05	<0.50	<0.50
EB2300086	EB2300086-007	Soil	mg/kg	4/01/2023	0.0165	0.0015	<0.0129	<0.0129
EB2300086	EB2300086-007	Water (Leachate)	µg/L	4/01/2023	0.29	0.06	<0.50	<0.50
EB2300086	EB2300086-008	Soil	mg/kg	4/01/2023	0.0150	0.0017	<0.0261	<0.0261
EB2300086	EB2300086-008	Water (Leachate)	µg/L	4/01/2023	0.28	0.05	<0.50	<0.50
EB2300086	EB2300086-009	Soil	mg/kg	4/01/2023	0.0140	0.0016	<0.0130	<0.0130
EB2300086	EB2300086-009	Water (Leachate)	µg/L	4/01/2023	0.31	0.04	<0.50	<0.50
EB2300086	EB2300086-010	Soil	mg/kg	4/01/2023	0.0143	0.0016	2.7600	0.0490
EB2300086	EB2300086-010	Water (Leachate)	µg/L	4/01/2023	0.22	0.04	<0.50	<0.50
EB2300086	EB2300086-011	Soil	mg/kg	4/01/2023	0.0142	0.0016	<0.0132	<0.0132
EB2300086	EB2300086-011	Water (Leachate)	µg/L	4/01/2023	0.20	0.05	<0.50	<0.50
EB2300086	EB2300086-012	Soil	mg/kg	4/01/2023	0.0142	0.0016	<0.0026	0.0342
EB2300086	EB2300086-012	Water (Leachate)	µg/L	4/01/2023	0.39	0.04	<0.50	<0.50
EB2300086	EB2300086-013	Soil	mg/kg	4/01/2023	-	-	-	-
EB2300086	EB2300086-013	Water (Leachate)	µg/L	4/01/2023	-	-	-	-
EB2237288	EB2237288-001	Soil	mg/kg	13/12/2023	0.0040	0.0005	0.0052	0.0036
EB2237288	EB2237288-001	Water (Leachate)	µg/L	13/12/2023	0.04	0.02	0.04	<0.01
EB2237288	EB2237288-002	Soil	mg/kg	13/12/2023	0.0026	0.0004	0.0043	0.0197
EB2237288	EB2237288-002	Water (Leachate)	µg/L	13/12/2023	0.08	0.02	0.06	<0.05
EB2237288	EB2237288-003	Soil	mg/kg	13/12/2023	0.0164	0.0003	0.0293	0.0171
EB2237288	EB2237288-003	Water (Leachate)	µg/L	13/12/2023	0.63	0.02	0.46	<0.10
EB2237288	EB2237288-004	Soil	mg/kg	13/12/2023	0.0358	0.0003	0.0250	0.0252
EB2237288	EB2237288-004	Water (Leachate)	µg/L	13/12/2023	0.71	0.02	0.50	<0.10

8 Data Quality Assessment

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

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

To carry out the data quality assessment for the lab analytical results acquired in the course of this investigation, the US EPA Guidelines were used. The Guidelines provide a general strategy for assessing data quality criteria and performance specifications as part of decision making. The following assessment methodology addresses most of the steps of the data quality assessment (DQA) process provided in the guidelines.

8.1 Data Review

Quality control reports from the laboratories subcontracted for sample analyses were reviewed. Laboratory blank samples, duplicate samples, control samples, spiked samples and method blanks were evaluated.

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

Following the QA/QC assessment, the validity of the results is determined based on the assessment criteria adopted with the results expressed as either valid or invalid data (acceptable or unacceptable). An overall summary of the QA/QC assessment can be found in Appendix G – QA/QC Output.

8.2 COC

Australian Standard AS 4482.1 defines the chain-of-custody documentation as the link in the transfer of samples between the time of collection and arrival at the laboratory.

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

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

Copies of the COCs completed during the course of this investigation are provided in in Appendix C – Analytical Results.

8.3 Record of Holding Times

The objective is to ascertain the validity of the analytical results based on meeting the holding time for the samples from the time of collection to the time of analysis. The technical holding time criteria for soil and groundwater samples are summarised in Table 8-1.

Table 8-1: Recommended Storage, Preservation and Maximum Holding Times.

Analyte	Container	Recommended Preservation	Maximum Recommended Holding Time	Reference
VOCs	G	C	14 days	USEPA SW-846-8260B
PAHs	G	C	14 days	US EPA SW-846
TRHs	G	C	14 days	USEPA 8260D
Metals	P, G	AD or FM	6 months	NEPM
PFAS	HDPE	C	60 days	US EPA 821-R-11-007

Notes to Table 9-1

*Recommended Preservation: ZH - Zero Headspace; C – Chilled (cool to <4 °C); AD – Air Dry; FM – Field Moist

*Containers: G - Glass; P - Plastic (Metal Free); HDPE - High Density Polyethylene

All samples collected throughout the investigation were submitted within two days of the initial soil sampling. As such, the holding times of the soil samples submitted to their elected laboratories (Eurofins and ALS) meet the recommended criteria.

8.4 Laboratory Analytical Methodology and Accreditation

All chemical analysis was undertaken by NATA accredited laboratories using US EPA and NEPM methodologies. Refer to Appendix C – Analytical Results for the details of the adopted laboratory analytical methods and their respective accreditations. The laboratory methodologies and the respective accreditations of Eurofins and ALS were deemed suitable for the required analyses.

8.5 Detection Limits / Practical Quantification Limits

The smallest amount of a substance that can be detected by the laboratories used – ALS and Eurofins, above the background method noise in a procedure and within a stated confidence level is referred as detection limit.

Current practice identifies several detection limits including the following: (1) the instrument detection limit (IDL), (2) the lower-level detection limit (LLD), the method detection limit (MDL) and the practical quantitation limit (LOR).

The relationship among these levels is approximately IDL: LLD: MDL: LOR = 1: 2: 4: 10. Refer to Appendix C- Analytical Results and Section 4 Eurofins and ALS for the list of LORs provided by their respective laboratories. When dilution of a sample is involved in the sample preparation, the method detection limit is adjusted by the dilution factor.

8.6 Field QA/QC

A summary of the QA/QC samples collected during field works is provided in **Table 8-2**.

Table 8-2: Summary of Field QA/QC Samples.

Field QA/QC	Frequency	Sample Details	Field QA/QC Frequency Achieved?
Blind replicate samples	1 per 10 samples for PFAS & 1 per 20 samples for other contaminants	Six blind replicate samples were collected during the investigation: - QC1 is an intra-laboratory replicate of the primary sample of B1-6 (pre-treatment) - QC3 is an intra-laboratory replicate of the primary sample B2-6 (pre-treatment). - QC5 is an intra-laboratory replicate of the primary sample of B3-6 (pre-treatment). - QC19 is an intra-laboratory replicate of the primary sample of B1-1 (post-treatment). - QC21 is an intra-laboratory replicate of primary sample B2-1 (post-treatment). - QC23 is an intra-laboratory replicate of primary sample B3-1 (post-treatment).	Yes ¹
Split Replicate samples	1 per 10 samples for PFAS & 1 per 20 samples for other contaminants	Six split replicate samples were collected during the investigation: - QC2 is an interlaboratory replicate of the primary sample of B1-6 (pre-treatment) - QC4 is an interlaboratory replicate of the primary sample B2-6 (pre-treatment). - QC6 is an interlaboratory replicate of the primary sample of B3-6 (pre-treatment). - QC20 is an interlaboratory replicate of the primary sample of B1-1 (post-treatment). - QC22 is an interlaboratory replicate of primary sample B2-1 (post-treatment). - QC24 is an interlaboratory replicate of primary sample B3-1 (post-treatment).	Yes

Australian Standard 4482.1 and the NEPM (2013) specifies the typical Relative Percentage Data (RPD) values for replicate samples to be below 30%. If both samples' values are less than the practical quantification limit (PQL), the RPD is not calculated. Valid values are sample concentrations that fall within the control limits of 0-30% described above. Invalid values are concentrations that are outside of the control limits.

- Six intra-laboratory blind replicate samples were collected to determine the variability of the sampling process. The replicate sample was collected simultaneously from the same source and under identical conditions as the primary samples.
- The blind replicate samples showed 201 valid values and 7 invalid values.
- Inter-laboratory split replicate samples were collected to measure the variability between the laboratory analysis process.
- The split replicate samples showed 93 valid values and 5 invalid values.
- Invalid values were noted in the soil interlaboratory replicates for 6:2 FTS, 8:2 FTS, PFOS, sum of PFHxS and PFOS. All invalid values were below 60% RPD. Interlaboratory replicate variability is not considered to affect the QAQC data because the highest RPD values are below the average batch replicate variation for the analyte with the greatest RPD.
- Invalid values were noted in the water intra-laboratory replicates for pH, PpPEA, PFHxA, PFHpA, PFOA.

8.7 Laboratory QA/QC

8.7.1 Laboratory Duplicates

- Duplicate sample determinations were provided by the laboratories to demonstrate acceptable method precision at the time of analysis.
- Duplicates are generally analysed at a frequency of 1 for every 10 samples. Australian Standard 4482.1 provides an acceptable range of the RPD values up to 50% for quality control samples, depending on the magnitude of results in comparison to the LOR.
- Analysis of laboratory duplicates showed 558 valid values and two invalid values.

8.7.2 Laboratory Blanks

- The assessment of blank analysis results was conducted to determine the existence and magnitude of contamination resulting from laboratory activities.
- No contaminants were found within any of the blanks analysed by the laboratory resulting in 391 valid values and nil invalid values.

8.7.3 Laboratory Spikes and Surrogates

- Laboratory limits of approximately 70-130% for inorganics and 60-140% for organics were used to validate matrix spikes and laboratory surrogate samples.
- Analysis of spikes and surrogates showed 4,976 valid values and 1,487 invalid values.
- Due to the nature of the complex matrices analysed including the AFFF water wash, matrix interferences likely impacted in the surrogate recoveries. There were minor amounts of TRH and PFAS precursor components within the samples analysed which may have contributed to the lower surrogate recovery rates. The individual PFAS compounds that recorded surrogate recovery rates outside of the accepted criteria are not considered to have had an impact on the overall validity of the results.

8.7.4 Laboratory Control Samples

- Laboratory limit of approximately 70-130% for inorganics and 60-140% for organics were used to validate laboratory control samples.
- Analysis of the laboratory control samples showed 254 valid values and 15 invalid values.

8.8 QA / QC Data Evaluation

The qualitative and quantitative descriptors, DQIs were used in interpreting the degree of acceptability of the data acquired in the course of the investigation. The principle DQIs are precision, accuracy, representativeness, comparability, and completeness referred to by the acronym PARCC.

Precision and accuracy are quantitative measures, representativeness and comparability are qualitative, and completeness is a combination of both quantitative and qualitative measures. summarises the DQO reconciliation.

Table 8-3 Summary of DQO Reconciliation.

QA/QC Item	Valid Data	Invalid Data	Completeness
Laboratory duplicate samples (Soil)	523	2	99.61%
Laboratory duplicate samples (Water)	35	0	100%
Laboratory blank samples	391	0	100%
Matrix Spikes	460	30	93.88%
Surrogate Recoveries	4516	1457	67.74%
Laboratory Control samples	254	15	94.42%
Blind Replicate Samples (Soil)	99	0	100%
Split Replicate Samples (Soil)	93	5	94.89%
Blind Replicate Samples (Water)	102	7	93.14%
Overall Completeness:	6,482	1,516	77.07%

Notes to Table 19

*LOR – Limits of Reporting

Following a review of the data, the recorded ‘invalid’ results can be attributed to the difficulties in obtaining a homogeneous sample from heterogeneous matrices. Laboratory surrogates recorded a recovery rate of 67.74%. Despite the influence of complex matrices, such as unidentified compounds within the AFFF wash water, on the surrogates due to potential interference, this discrepancy does not undermine the QAQC evaluation of this investigation. The data presented in this study is valid on its own merit, reinforced by the consistency of the leachability results which align with predications. The leachability data and patterns including the reduction in leachability correlate with the initially expected outcome, further substantiating the quality and of the data in this assessment.

The high recovery rates for the laboratory duplicate and blank samples and the field replicate samples demonstrate a high degree of reliability in the validity of the field data and the majority of the laboratory quality control measures. The overall completeness rate of 77.07% is not considered to be indicative of poor data validity, but rather a result of matrix interferences with the surrogate recoveries which has reduced the overall completeness percentage. As discussed above, the validity of the data within the results and the leachability assessment which correlated with the initial expected outcome demonstrates a high quality of data for the investigation purposes.

9 Conclusion

Bench scale trials assessed the effectiveness of 1%, 3% w/w and 5% w/w RemBind 100 in immobilising PFAS on sandy clay, gravelly sand, clayey sand and silty sand. The results of the bench trial showed that 5% RemBind 100 was an effective sorbent in reducing the leachability of PFAS by between 87% and 97%. RemBind 100 at a concentration of 5% w/w was found to be the most effective dose and was selected for use in field trials.

In field trials, RemBind 100 (5% w/w) was added to three 10 tonne batches of soil and mixed using a mixer bucket attached to an excavator. Soil types selected for field trials were a Silty CLAY, Gravelly SAND and silty SAND. The three soil types from various locations and containing PFAS contamination at different concentrations, were stabilised with RemBind 100 at 5% w/w to reduce the leachability of PFAS and enable disposal of the soils to landfill.

Soil analysis was carried out for co-occurring contaminants that may affect the treatment process. The results of TRH within the pre-treatment batch samples reported concentrations predominantly below laboratory detect with a maximum concentration of TRH fraction C₁₀-C₄₀ of 341 mg/kg, the alkalinity of the samples ranged from 350-770 mg/kg and ammonium concentration ranging between 13-51 mg/kg, with the highest concentrations noted in Batch 2. The pH FOX results were generally highly alkaline amongst the samples in batch 1, with acidic readings within batch 2 and neutral readings in batch 3.

The results for field trials show a comprehensive reduction in leachability for all soil materials. Reductions in leachability in the range of 92% to 98% were achieved. The lowest reduction was observed in the clay materials, which could be a product of the difficulty in mixing RemBind 100 into clays. The field trial has however shown that PFAS leachability can still be reduced to a level suitable for disposal at a double lined landfill.

In addition, soil samples underwent an aggressive leaching procedure (MEP) to evaluate whether the stabilised soils would remain stable in a landfill environment. The sum of PFAS concentrations in solution were below detection limits except for samples B1-1 and B1-3 on days 1 and 3 which showed a maximum concentration of 0.96 µg/L. The results show that leachability of PFAS is very low even over multiple aggressive extraction events and confirms the work of Kabiri and McLaughlin (2020). As PFAS was only detected in a minority of samples it highlights RemBind 100 at 5%w/w is suitable for long-term immobilisation of PFAS that has been disposed in landfill.

During the PFAS treatment trial, Hi Quality received sludge to treat as a part of the program. The solid component of the sludge was tested and PFAS concentrations were found to be below landfill acceptance criteria in all samples. As such the sludge was not treated with RemBind 100 before landfill disposal.

The stack emissions were carried out at a low detection limit of less than 1 ng/Nm³ and several non-target PFAS were detected in the stack gas (C11-C14 PFCAs). A worst-case scenario using default parameters from the NEPM, generated an intake of 0.0044 µg/kg_{bw}/day for total PFAS (assumes a 70 kg adult breathing air at a rate of 20 m³/day and spending 24 hours breathing nothing but the exhaust from the treatment process). The calculated intake is 4.5 times lower than the FSANZ 2017 TDI from NEMP v 2.0 of 0.02 µg/kg_{bw}/day for PFOS. On this basis it is considered that the air emissions from the stacks are low and acceptable.

The results of both the bench trial and field scale trial have shown RemBind 100 as an effective sorbent in reducing the leachability of PFAS by between 92% and 98%. Testing for PFAS ASLP TOPA (detectable PFAS found using the Total Oxidisable Precursor Assay applied to the water generated from the Australian Standard Leaching Procedure using an unbuffered reagent water) showed that the leaching of PFAS from the soil had been reduced to below the limit for disposal to landfill.

A primary objective of the works was to provide Hi-Quality with a complete solution to meet the requirements of Permit EA0002264. The permit requires that Hi-Quality adequately characterise the immobilisation performance of RemBind 100 on PFAS-impacted soils and the solid component of sludge waste for potential offsite disposal. As per the results presented, the performance of RemBind 100 has been shown to be adequate in treating PFAS-impacted soils. Each of the permit conditions have been complied with.

10 References

- Australian Standard AS4482.2-2005, Guide to the sampling and investigation of potentially contamination soil;
- Australian Standard AS1141.3.1-2021, Methods for sampling and testing aggregates;
- Contaminated Land Management Act 1997;
- DES. 2018. Monitoring and Sampling Manual: Environmental Protection (Water) Policy. Brisbane: Department of Environment and Science.
- Environmental Protection Regulation, Schedule 9 (DES, 2019), Regulated waste and waste that is not regulated waste;
- NEPC (National Environmental Protection Council) (1999), National Environment Protection (Assessment of Site Contamination) Measures, (NEPM) amended in 2013;
- Heads of EPAs (HEPA) Australia and New Zealand, PFAS National Environmental Management Plan (NEMP, version 2.0 2020);
- Queensland Acid Sulfate Soil Management Guideline;
- US EPA, '*Guidance on Assessing Quality Systems*' (2003);
- US EPA, '*Guidance on Systematic Planning Using the Data Quality Objectives Process*' (2006); and
- S. Kabiri and M.J. McLaughlin (2020) Durability of Sorption of per- and polyfluorinated alkyl substances immobilised in soils using common adsorbents. Science of the Total Environment

11 Limitation and Disclaimer

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

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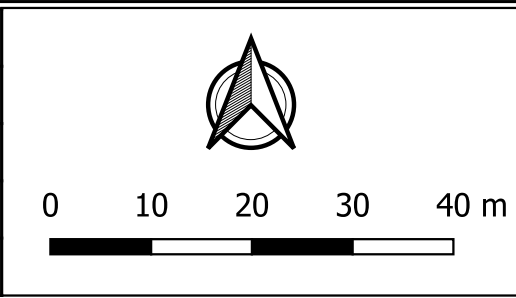
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Appendix A – Figures

C:\Users\Elison.Macwan\ADE Consulting Group Pty Ltd\ENV-Working - Documents\VIC-ECTRR\Project\21.1540.00 Hi-Quality PFAS Treatment Trial\MM\5 Working Documents\10 GIS (EW)\21.1540.qbz



No.	Description	Drawn	Approved	Date
A	FIRST ISSUE	EM	CT	08/12/23



Created by:	EM	Client:	Hi Quality Recycling Services PTY LTD
Approved by:	CT	Project ID:	21.1540.00
Date:	08/12/2023	Title:	Site Location
Scale:	AS SHOWN	Figure Number:	1
Original size:	A3	Rev:	A

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Legend

 Site

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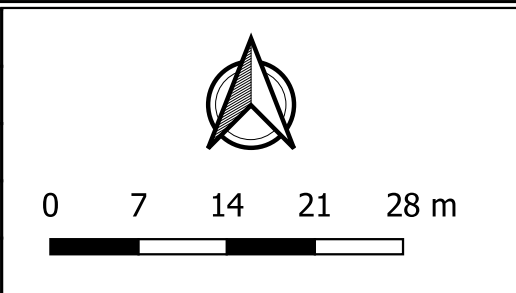
Legend

Site

Site Features

PFAS Storage Area

No.	Description	Drawn	Approved	Date
A	FIRST ISSUE	EM	CT	08/12/23



Created by:	EM	Client:	Hi Quality Recycling Services PTY LTD
Approved by:	CT	Project ID:	21.1540.00
Date:	08/12/2023	Title:	Site Features
Scale:	AS SHOWN	Figure Number:	2
Original size:	A3	Rev:	A

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Appendix B – Results Tables



	Physical	Perfluoroalkane Carboxylic Acids											Perfluoroalkane Sulfonic Acids				
		Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTriDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluoropropanesulfonic acid (PFPrS)	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)
%	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	
EQL	1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5

Field ID	Date	Matrix Type	Matrix Description	Sample Type																	
S001	15 Sep 2023	Soil	Standard	Normal	19	<5	<5	<5	49	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
S005	15 Sep 2023	Soil	Standard	Normal	27	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
S006	15 Sep 2023	Soil	Standard	Normal	26	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
S008	15 Sep 2023	Soil	Standard	Normal	25	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	

Statistics																	
Number of Results	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Number of Detects	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	19	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Maximum Concentration	27	<5	<5	<5	49	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

* A Non Detect Multiplier of 0.5 has been applied.



	PFOS			(n:2) Fluorotelomer Sulfonic Acids				Perfluoroalkyl Sulfonamides							PFAS		
	Perfluorooctane sulfonic acid (PFOS)	Perfluorodecane sulfonic acid (PFDS)	Perfluorononanesulfonic acid (PFNS)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	Sum of PFHxS and PFOS	Sum of PFAS	
	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
EQL	5	5	5	5	10	5	5	5	5	10	5	5	10	5	5	5	50

Field ID	Date	Matrix Type	Matrix Description	Sample Type															
S001	15 Sep 2023	Soil	Standard	Normal	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<5	<10	<5	<5
S005	15 Sep 2023	Soil	Standard	Normal	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<5	<10	<5	<5
S006	15 Sep 2023	Soil	Standard	Normal	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<5	<10	<5	<5
S008	15 Sep 2023	Soil	Standard	Normal	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<5	<10	<5	<5

Statistics																	
Number of Results	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<5	<10	<5	<5	<50	
Maximum Concentration	<5	<5	<5	<5	<10	<5	<5	<5	<5	<10	<5	<5	<10	<5	<5	<50	

* A Non Detect Multiplier of 0.5 has been applied.



	Perfluoroalkane Carboxylic Acids											Perfluoropropanesulfonic acid (PFPS)
	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Field ID	Date	Matrix Description	Sample Comments	Sample Type	Sampling Method												
W001	15 Sep 2023	Wash Water	AFFF Wash Water	Normal	Selected for Trial	100	210	170	79	44	25	3.6	0.21	3.3	0.26	<0.1	9.2
W002	15 Sep 2023	Wash Water	AFFF Wash Water	Normal	Selected for Trial	<0.5	23	58	18	48	2.0	0.10	<0.1	0.24	<0.1	<0.1	<0.1
W003	15 Sep 2023	Wash Water	AFFF Wash Water	Normal	Selected for Trial	2,100	4,200	2,200	600	130	6.6	2.5	1.5	0.70	0.26	0.13	<0.1
W004	15 Sep 2023	Wash Water	AFFF Wash Water	Normal	Not Selected	<0.5	0.65	1.7	<0.1	0.88	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
W005	15 Sep 2023	Wash Water	AFFF Wash Water	Normal	Not Selected	<0.5	<0.1	0.26	<0.1	0.17	<0.1	0.04	<0.1	<0.1	<0.1	<0.1	<0.1
W006	15 Sep 2023	Wash Water	AFFF Wash Water	Normal	Not Selected	<0.5	<0.1	<0.1	0.13	0.38	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
W007	15 Sep 2023	Wash Water	AFFF Wash Water	Normal	Not Selected	<0.5	0.19	1.0	0.19	0.70	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
W008	15 Sep 2023	Wash Water	AFFF Wash Water	Normal	Not Selected	<0.5	0.30	<0.1	0.19	0.45	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
W009	15 Sep 2023	Wash Water	AFFF Wash Water	Normal	Not Selected	33	72	64	12	8.8	3.5	1.7	0.79	0.34	0.30	0.19	<0.1
W010	15 Sep 2023	Wash Water	AFFF Wash Water	Normal	Not Selected	<0.5	<0.1	2.4	<0.1	0.13	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

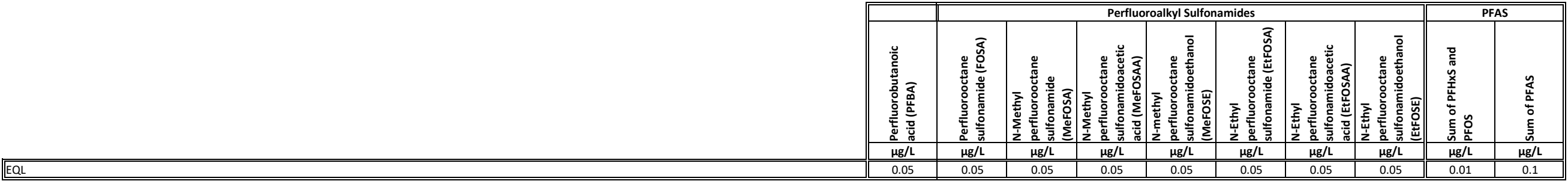
Statistics																	
Number of Results						10	10	10	10	10	10	10	10	10	10	10	10
Number of Detects						3	7	8	7	10	4	5	3	4	3	2	1
Minimum Concentration						<0.5	<0.1	<0.1	<0.1	0.13	<0.1	0.04	<0.1	<0.1	<0.1	<0.1	<0.1
Maximum Concentration						2,100	4,200	2,200	600	130	25	3.6	1.5	3.3	0.3	0.19	9.2



	Perfluoroalkane Sulfonic Acids								(n:2) Fluorotelomer Sulfonic Acids			
	Perfluorobutanoic acid (PFBA)	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorodecane sulfonic acid (PFDS)	Perfluorononanesulfonic acid (PFNS)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L
EQL	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01

Field ID	Date	Matrix Description	Sample Comments	Sample Type	Sampling Method												
W001	15 Sep 2023	Wash Water	AFFF Wash Water	Normal	Selected for Trial	100	<0.1	<0.1	<0.1	<0.1	<0.01	<0.1	<0.1	<0.1	490	79	36
W002	15 Sep 2023	Wash Water	AFFF Wash Water	Normal	Selected for Trial	<0.5	1.5	2.9	20	5.4	<0.01	0.80	<0.1	0.94	440	59	3.1
W003	15 Sep 2023	Wash Water	AFFF Wash Water	Normal	Selected for Trial	2,100	<0.1	<0.1	<0.1	<0.1	<0.01	<0.1	<0.1	15	1,400	370	19
W004	15 Sep 2023	Wash Water	AFFF Wash Water	Normal	Not Selected	<0.5	<0.1	<0.1	<0.1	<0.1	<0.01	<0.1	<0.1	<0.1	11	2.2	0.37
W005	15 Sep 2023	Wash Water	AFFF Wash Water	Normal	Not Selected	<0.5	<0.1	<0.1	0.80	<0.1	<0.01	<0.1	<0.1	<0.1	<0.5	0.21	<0.1
W006	15 Sep 2023	Wash Water	AFFF Wash Water	Normal	Not Selected	<0.5	<0.1	<0.1	<0.1	<0.1	<0.01	<0.1	<0.1	<0.1	4.0	1.8	<0.1
W007	15 Sep 2023	Wash Water	AFFF Wash Water	Normal	Not Selected	<0.5	<0.1	<0.1	<0.1	<0.1	<0.01	<0.1	<0.1	<0.1	4.6	4.4	<0.1
W008	15 Sep 2023	Wash Water	AFFF Wash Water	Normal	Not Selected	<0.5	<0.1	<0.1	<0.1	<0.1	<0.01	<0.1	<0.1	<0.1	2.8	3.0	<0.1
W009	15 Sep 2023	Wash Water	AFFF Wash Water	Normal	Not Selected	33	<0.1	0.22	0.99	0.15	<0.01	<0.1	<0.1	0.28	200	33	5.3
W010	15 Sep 2023	Wash Water	AFFF Wash Water	Normal	Not Selected	<0.5	<0.1	<0.1	<0.1	<0.1	<0.01	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1

Statistics																	
Number of Results						10	10	10	10	10	10	10	10	10	10	10	10
Number of Detects						3	1	2	3	2	0	1	0	3	8	9	5
Minimum Concentration						<0.5	<0.1	<0.1	<0.1	<0.1	<0.01	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1
Maximum Concentration						2,100	1.5	2.9	20	5.4	<0.01	0.8	<0.1	15	1,400	370	36

[illegible]

Statistics

[illegible]

	Perfluoroalkane Carboxylic Acids											(n:2) Fluorotelomer Sulfonic Acids				Perfluoroalkane Sulfonic Acids			
	Perfluorobutanoic acid (PFBA)	Perfluorohexanoic acid (PFHxA)	Perfluoropentanoic acid (PFPeA)	Perfluoroheptanoic acid (PFHpA)	Perfluorooctanoic acid (PFOA)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorononanoic acid (PFNA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluoroundecanoic acid (PFUnDA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Perfluoropropanesulfonic acid (PFPrS)	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.01	0.005	0.005	0.005	0.005	0.005	0.005
PFAS NEMP 2020 Clay/Single Composite Lined Landfill Acceptance Criteria					50														50
PFAS NEMP 2020 Double Composite Landfill Acceptance Criteria					50														50
PFAS NEMP 2020 Unlined Landfill Acceptance Criteria					50														20

Field ID	Date	Matrix Type																		
BT-1	28 Sep 2023	NA																		
BT-1-0-1	28 Sep 2023	Soil	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005
BT-1-0-2	28 Sep 2023	Soil	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005
BT-1-0-3	28 Sep 2023	Soil	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005
BT-2	28 Sep 2023	NA																		
BT-2-0-1	28 Sep 2023	Soil	<0.005	0.03	0.0090	0.0071	0.019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.1	0.011	<0.005	<0.005	<0.005	0.0070
BT-2-0-2	28 Sep 2023	Soil	<0.005	0.026	0.0074	0.0060	0.018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.068	0.0070	<0.005	<0.005	<0.005	0.0064
BT-2-0-3	28 Sep 2023	Soil	<0.005	0.023	0.0060	0.0068	0.014	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.063	0.0082	<0.005	<0.005	<0.005	<0.005
BT-3	28 Sep 2023	NA																		
BT-3-0-1	28 Sep 2023	Soil	0.16	0.53	0.41	0.21	0.09	<0.005	<0.005	0.0074	<0.005	<0.005	<0.005	<0.005	<0.01	0.21	0.0068	<0.005	<0.005	<0.005
BT-3-0-2	28 Sep 2023	Soil	0.13	0.63	0.33	0.17	0.16	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.56	1.1	0.023	<0.005	<0.005	<0.005
BT-3-0-3	28 Sep 2023	Soil	0.16	0.59	0.38	0.16	0.071	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.37	1.1	0.018	<0.005	<0.005	<0.005
BT-4	28 Sep 2023	NA																		
BT-4-0-1	28 Sep 2023	Soil	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	0.0078
BT-4-0-2	28 Sep 2023	Soil	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	0.011
BT-4-0-3	28 Sep 2023	Soil	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	0.0059

Statistics																			
Number of Results	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Number of Detects	3	6	6	6	6	0	0	1	0	0	0	0	5	6	3	0	0	0	5
Minimum Concentration	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Maximum Concentration	0.16	0.63	0.41	0.21	0.16	<0.005	<0.005	0.0074	<0.005	<0.005	<0.005	<0.005	0.56	1.1	0.023	<0.005	<0.005	<0.005	0.011

Environmental Standards

HEPA, January 2020, PFAS NEMP 2020 Clay/Single Composite Lined Landfill Acceptance Criteria

HEPA, January 2020, PFAS NEMP 2020 Double Composite Landfill Acceptance Criteria

HEPA, January 2020, PFAS NEMP 2020 Unlined Landfill Acceptance Criteria



	Sulfonic Acids				Perfluoroalkyl Sulfonamides								Inorganics	BTX						
	Perfluorobutanoic acid (PFBA)	Perfluorooctanoic acid (PFHpS)	Perfluorooctanoic acid (PFOS)	Perfluorodecanoic acid (PFDS)	Perfluorooctanoic sulfonamide (FOSA)	N-Methyl perfluorooctanoic sulfonamide (MeFOSA)	N-Methyl perfluorooctanoic sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctanoic sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctanoic sulfonamide (EtFOSA)	N-Ethyl perfluorooctanoic sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctanoic sulfonamidoethanol (EtFOSE)	Moisture Content (dried @ 103° C)		Naphthalene (VOC)	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene 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
EQL	0.005	0.005	0.005	0.005	0.005	0.005	0.01	0.005	0.005	0.01	0.005	1		0.5	0.1	0.1	0.1	0.2	0.1	0.3
PFAS NEMP 2020 Clay/Single Composite Lined Landfill Acceptance Criteria			50																	
PFAS NEMP 2020 Double Composite Landfill Acceptance Criteria			50																	
PFAS NEMP 2020 Unlined Landfill Acceptance Criteria			20																	

Field ID	Date	Matrix Type																			
BT-1	28 Sep 2023	NA												26	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3
BT-1-0-1	28 Sep 2023	Soil	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.01	<0.005	29							
BT-1-0-2	28 Sep 2023	Soil	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.01	<0.005	24							
BT-1-0-3	28 Sep 2023	Soil	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.01	<0.005	30							
BT-2	28 Sep 2023	NA												11	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3
BT-2-0-1	28 Sep 2023	Soil	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.01	<0.005	13							
BT-2-0-2	28 Sep 2023	Soil	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.01	<0.005	11							
BT-2-0-3	28 Sep 2023	Soil	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.01	<0.005	10							
BT-3	28 Sep 2023	NA												24	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3
BT-3-0-1	28 Sep 2023	Soil	0.16	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.01	<0.005	21							
BT-3-0-2	28 Sep 2023	Soil	0.13	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.01	<0.005	22							
BT-3-0-3	28 Sep 2023	Soil	0.16	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.01	<0.005	21							
BT-4	28 Sep 2023	NA												25	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3
BT-4-0-1	28 Sep 2023	Soil	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.01	<0.005	24							
BT-4-0-2	28 Sep 2023	Soil	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.01	<0.005	26							
BT-4-0-3	28 Sep 2023	Soil	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.01	<0.005	27							

Statistics																				
Number of Results	12	12	12	12	12	12	12	12	12	12	12	12	16	4	4	4	4	4	4	4
Number of Detects	3	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0
Minimum Concentration	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.01	<0.005	10	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	
Maximum Concentration	0.16	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.01	<0.005	30	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	

Environmental Standards

HEPA, January 2020, PFAS NEMP 2020 Clay/Single Composite Lined Landfill Acceptance Criteria
HEPA, January 2020, PFAS NEMP 2020 Double Composite Landfill Acceptance Criteria
HEPA, January 2020, PFAS NEMP 2020 Unlined Landfill Acceptance Criteria

	Perfluorobutanoic acid (PFBA)	TRH							PFAS						TPH				
		C6-C10 Fraction (F1)	C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C10-C16 Fraction (F2 minus Naphthalene)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	Perfluorononanesulfonic acid (PFNS)	Sum of PFHxS and PFOS	Sum of PFAS	Sum of PFAS (WA DER List)	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)	Sum of PFAS (PFOS + PFOA)	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	µg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
EQL	0.005	20	20	50	50	100	100	100	5	0.005	0.05	0.01	0.005	0.005	20	20	50	50	50
PFAS NEMP 2020 Clay/Single Composite Lined Landfill Acceptance Criteria										50									
PFAS NEMP 2020 Double Composite Landfill Acceptance Criteria										50									
PFAS NEMP 2020 Unlined Landfill Acceptance Criteria										20									

Field ID	Date	Matrix Type																			
BT-1	28 Sep 2023	NA		<20	<20	<50	<50	270	<100	270							<20	<20	200	96	296
BT-1-0-1	28 Sep 2023	Soil	<0.005								<5	<0.005	<0.05	<0.01	<0.005	<0.005					
BT-1-0-2	28 Sep 2023	Soil	<0.005								<5	<0.005	<0.05	<0.01	<0.005	<0.005					
BT-1-0-3	28 Sep 2023	Soil	<0.005								<5	<0.005	<0.05	<0.01	<0.005	<0.005					
BT-2	28 Sep 2023	NA		<20	<20	<50	<50	100	<100	100							<20	<20	95	<50	95
BT-2-0-1	28 Sep 2023	Soil	<0.005								<5	0.007	0.1831	0.1831	0.026	0.019					
BT-2-0-2	28 Sep 2023	Soil	<0.005								<5	0.0064	0.1388	0.1388	0.0244	0.018					
BT-2-0-3	28 Sep 2023	Soil	<0.005								<5	<0.005	0.121	0.121	0.014	0.014					
BT-3	28 Sep 2023	NA		<20	<20	380	380	2,500	670	3,550							<20	240	1,900	1,000	3,140
BT-3-0-1	28 Sep 2023	Soil	0.16								<5	<0.005	1.6242	1.61	0.09	0.09					
BT-3-0-2	28 Sep 2023	Soil	0.13								<5	<0.005	3.103	3.08	0.16	0.16					
BT-3-0-3	28 Sep 2023	Soil	0.16								<5	<0.005	2.849	2.831	0.071	0.071					
BT-4	28 Sep 2023	NA		<20	<20	52	52	<100	<100	<100							<20	25	100	<50	125
BT-4-0-1	28 Sep 2023	Soil	<0.005								<5	0.0078	<0.05	<0.01	0.0078	<0.005					
BT-4-0-2	28 Sep 2023	Soil	<0.005								<5	0.011	<0.05	0.011	0.011	<0.005					
BT-4-0-3	28 Sep 2023	Soil	<0.005								<5	0.0059	<0.05	<0.01	0.0059	<0.005					

Statistics																				
Number of Results	12	4	4	4	4	4	4	4	12	12	12	12	12	12	4	4	4	4	4	4
Number of Detects	3	0	0	2	2	3	1	3	0	5	6	7	9	6	0	2	4	2	4	4
Minimum Concentration	<0.005	<20	<20	<50	<50	100	<100	100	<5	<0.005	<0.05	<0.01	<0.005	<0.005	<20	<20	95	<50	95	95
Maximum Concentration	0.16	<20	<20	380	380	2,500	670	3,550	<5	0.011	3.103	3.08	0.16	0.16	<20	240	1,900	1,000	3,140	3,140

Environmental Standards

HEPA, January 2020, PFAS NEMP 2020 Clay/Single Composite Lined Landfill Acceptance Criteria

HEPA, January 2020, PFAS NEMP 2020 Double Composite Landfill Acceptance Criteria

HEPA, January 2020, PFAS NEMP 2020 Unlined Landfill Acceptance Criteria



	Physical	Perfluoroalkane Carboxylic Acids										
	Moisture Content (dried @ 103°C)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTriDA)	Perfluorotetradecanoic acid (PFTeDA)
	%	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
EQL	1	5	5	5	5	5	5	5	5	5	5	5
PFAS NEMP 2020 Clay/Single Composite Lined Landfill Acceptance Criteria						50,000						
PFAS NEMP 2020 Double Composite Landfill Acceptance Criteria						50,000						
PFAS NEMP 2020 Unlined Landfill Acceptance Criteria						50,000						
QLD Solid Category 1 Regulated Waste												
QLD Solid Category 2 Regulated Waste												

Field ID	Date	Matrix Type	Matrix Description	Sample Comments	Sample Type												
BT-1-0-1	28 Sep 2023	Soil	Standard	Bucket 1, 0% Rembind, Replicate 1	Normal	29	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BT-1-0-2	28 Sep 2023	Soil	Standard	Bucket 1, 0% Rembind, Replicate 2	Normal	24	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BT-1-0-3	28 Sep 2023	Soil	Standard	Bucket 1, 0% Rembind, Replicate 3	Normal	30	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BT-2-0-1	28 Sep 2023	Soil	Standard	Bucket 2, 0% Rembind, Replicate 1	Normal	13	<5	9.0	30	7.1	19	<5	<5	<5	<5	<5	<5
BT-2-0-2	28 Sep 2023	Soil	Standard	Bucket 2, 0% Rembind, Replicate 2	Normal	11	<5	7.4	26	6.0	18	<5	<5	<5	<5	<5	<5
BT-2-0-3	28 Sep 2023	Soil	Standard	Bucket 2, 0% Rembind, Replicate 3	Normal	10	<5	6.0	23	6.8	14	<5	<5	<5	<5	<5	<5
BT-3-0-1	28 Sep 2023	Soil	Standard	Bucket 3, 0% Rembind, Replicate 1	Normal	21	160	410	530	210	90	7.4	<5	<5	<5	<5	<5
BT-3-0-2	28 Sep 2023	Soil	Standard	Bucket 3, 0% Rembind, Replicate 2	Normal	22	130	330	630	170	160	<5	<5	<5	<5	<5	<5
BT-3-0-3	28 Sep 2023	Soil	Standard	Bucket 3, 0% Rembind, Replicate 3	Normal	21	160	380	590	160	71	<5	<5	<5	<5	<5	<5
BT-4-0-1	28 Sep 2023	Soil	Standard	Bucket 4, 0% Rembind, Replicate 1	Normal	24	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BT-4-0-2	28 Sep 2023	Soil	Standard	Bucket 4, 0% Rembind, Replicate 2	Normal	26	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BT-4-0-3	28 Sep 2023	Soil	Standard	Bucket 4, 0% Rembind, Replicate 3	Normal	27	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

Statistics																	
Number of Results						12	12	12	12	12	12	12	12	12	12	12	12
Number of Detects						12	3	6	6	6	1	0	0	0	0	0	0
Minimum Concentration						10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Maximum Concentration						30	160	410	630	210	160	7.4	<5	<5	<5	<5	<5

Environmental Standards
HEPA, January 2020, PFAS NEMP 2020 Clay/Single Composite Lined Landfill Acceptance Criteria
HEPA, January 2020, PFAS NEMP 2020 Double Composite Landfill Acceptance Criteria
HEPA, January 2020, PFAS NEMP 2020 Unlined Landfill Acceptance Criteria
DES, 4 Feb 2019, QLD Solid Category 1 Regulated Waste
DES, 4 Feb 2019, QLD Solid Category 2 Regulated Waste



	Perfluoroalkane Sulfonic Acids								(n:2) Fluorotelomer Sulfonic Acids			
	Perfluoropropanesulfonic acid (PFPS)	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorodecane sulfonic acid (PFDS)	Perfluorononanesulfonic acid (PFNS)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)
	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
EQL	5	5	5	5	5	5	5	5	5	10	5	5
PFAS NEMP 2020 Clay/Single Composite Lined Landfill Acceptance Criteria				50,000		50,000						
PFAS NEMP 2020 Double Composite Landfill Acceptance Criteria				50,000		50,000						
PFAS NEMP 2020 Unlined Landfill Acceptance Criteria				20,000		20,000						
QLD Solid Category 1 Regulated Waste												
QLD Solid Category 2 Regulated Waste												

Field ID	Date	Matrix Type	Matrix Description	Sample Comments	Sample Type												
BT-1-0-1	28 Sep 2023	Soil	Standard	Bucket 1, 0% Rembind, Replicate 1	Normal	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5
BT-1-0-2	28 Sep 2023	Soil	Standard	Bucket 1, 0% Rembind, Replicate 2	Normal	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5
BT-1-0-3	28 Sep 2023	Soil	Standard	Bucket 1, 0% Rembind, Replicate 3	Normal	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5
BT-2-0-1	28 Sep 2023	Soil	Standard	Bucket 2, 0% Rembind, Replicate 1	Normal	<5	<5	<5	7.0	<5	<5	<5	<5	<5	100	11	<5
BT-2-0-2	28 Sep 2023	Soil	Standard	Bucket 2, 0% Rembind, Replicate 2	Normal	<5	<5	<5	6.4	<5	<5	<5	<5	<5	68	7.0	<5
BT-2-0-3	28 Sep 2023	Soil	Standard	Bucket 2, 0% Rembind, Replicate 3	Normal	<5	<5	<5	<5	<5	<5	<5	<5	<5	63	8.2	<5
BT-3-0-1	28 Sep 2023	Soil	Standard	Bucket 3, 0% Rembind, Replicate 1	Normal	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	210	6.8
BT-3-0-2	28 Sep 2023	Soil	Standard	Bucket 3, 0% Rembind, Replicate 2	Normal	<5	<5	<5	<5	<5	<5	<5	<5	<5	560	1,100	23
BT-3-0-3	28 Sep 2023	Soil	Standard	Bucket 3, 0% Rembind, Replicate 3	Normal	<5	<5	<5	<5	<5	<5	<5	<5	<5	370	1,100	18
BT-4-0-1	28 Sep 2023	Soil	Standard	Bucket 4, 0% Rembind, Replicate 1	Normal	<5	<5	<5	7.8	<5	<5	<5	<5	<5	<10	<5	<5
BT-4-0-2	28 Sep 2023	Soil	Standard	Bucket 4, 0% Rembind, Replicate 2	Normal	<5	<5	<5	11	<5	<5	<5	<5	<5	<10	<5	<5
BT-4-0-3	28 Sep 2023	Soil	Standard	Bucket 4, 0% Rembind, Replicate 3	Normal	<5	<5	<5	5.9	<5	<5	<5	<5	<5	<10	<5	<5

Statistics																
Number of Results						12	12	12	12	12	12	12	12	12	12	12
Number of Detects						0	0	0	5	0	0	0	0	5	6	3
Minimum Concentration						<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5
Maximum Concentration						<5	<5	<5	11	<5	<5	<5	<5	560	1,100	23

Environmental Standards

HEPA, January 2020, PFAS NEMP 2020 Clay/Single Composite Lined Landfill Acceptance Criteria

HEPA, January 2020, PFAS NEMP 2020 Double Composite Landfill Acceptance Criteria

HEPA, January 2020, PFAS NEMP 2020 Unlined Landfill Acceptance Criteria

DES, 4 Feb 2019, QLD Solid Category 1 Regulated Waste

DES, 4 Feb 2019, QLD Solid Category 2 Regulated Waste



	Perfluoroalkyl Sulfonamides								PFAS	
	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)		Sum of PFHxS and PFOS	Sum of PFAS
	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg		µg/kg	µg/kg
EQL	5	5	10	5	5	10	5		5	50
PFAS NEMP 2020 Clay/Single Composite Lined Landfill Acceptance Criteria									50,000	
PFAS NEMP 2020 Double Composite Landfill Acceptance Criteria									50,000	
PFAS NEMP 2020 Unlined Landfill Acceptance Criteria									20,000	
QLD Solid Category 1 Regulated Waste										0
QLD Solid Category 2 Regulated Waste										0

Field ID	Date	Matrix Type	Matrix Description	Sample Comments	Sample Type										
BT-1-0-1	28 Sep 2023	Soil	Standard	Bucket 1, 0% Rembind, Replicate 1	Normal	<5	<5	<10	<5	<5	<10	<5	<5	<50	
BT-1-0-2	28 Sep 2023	Soil	Standard	Bucket 1, 0% Rembind, Replicate 2	Normal	<5	<5	<10	<5	<5	<10	<5	<5	<50	
BT-1-0-3	28 Sep 2023	Soil	Standard	Bucket 1, 0% Rembind, Replicate 3	Normal	<5	<5	<10	<5	<5	<10	<5	<5	<50	
BT-2-0-1	28 Sep 2023	Soil	Standard	Bucket 2, 0% Rembind, Replicate 1	Normal	<5	<5	<10	<5	<5	<10	<5	7	183.1	
BT-2-0-2	28 Sep 2023	Soil	Standard	Bucket 2, 0% Rembind, Replicate 2	Normal	<5	<5	<10	<5	<5	<10	<5	6.4	138.8	
BT-2-0-3	28 Sep 2023	Soil	Standard	Bucket 2, 0% Rembind, Replicate 3	Normal	<5	<5	<10	<5	<5	<10	<5	<5	121	
BT-3-0-1	28 Sep 2023	Soil	Standard	Bucket 3, 0% Rembind, Replicate 1	Normal	<5	<5	<10	<5	<5	<10	<5	<5	1,624.2	
BT-3-0-2	28 Sep 2023	Soil	Standard	Bucket 3, 0% Rembind, Replicate 2	Normal	<5	<5	<10	<5	<5	<10	<5	<5	3,103	
BT-3-0-3	28 Sep 2023	Soil	Standard	Bucket 3, 0% Rembind, Replicate 3	Normal	<5	<5	<10	<5	<5	<10	<5	<5	2,849	
BT-4-0-1	28 Sep 2023	Soil	Standard	Bucket 4, 0% Rembind, Replicate 1	Normal	<5	<5	<10	<5	<5	<10	<5	7.8	<50	
BT-4-0-2	28 Sep 2023	Soil	Standard	Bucket 4, 0% Rembind, Replicate 2	Normal	<5	<5	<10	<5	<5	<10	<5	11	<50	
BT-4-0-3	28 Sep 2023	Soil	Standard	Bucket 4, 0% Rembind, Replicate 3	Normal	<5	<5	<10	<5	<5	<10	<5	5.9	<50	

Statistics															
Number of Results						12	12	12	12	12	12	12	12	12	12
Number of Detects						0	0	0	0	0	0	0	5	6	
Minimum Concentration						<5	<5	<10	<5	<5	<10	<5	<5	<50	
Maximum Concentration						<5	<5	<10	<5	<5	<10	<5	11	3,103	

Environmental Standards
HEPA, January 2020, PFAS NEMP 2020 Clay/Single Composite Lined Landfill Acceptance Criteria
HEPA, January 2020, PFAS NEMP 2020 Double Composite Landfill Acceptance Criteria
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DES, 4 Feb 2019, QLD Solid Category 1 Regulated Waste
DES, 4 Feb 2019, QLD Solid Category 2 Regulated Waste



	Physical	BTEX							TPH				
	Moisture Content (dried @ 103°C)	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	Naphthalene (VOC)	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
	%	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
EQL	1	0.1	0.1	0.1	0.2	0.1	0.3	0.5	20	20	50	50	50

Field ID	Date	Matrix Type	Matrix Description	Sample Comments	Sample Type													
BT-1	28 Sep 2023	Soil	Standard	Bucket 1	Normal	26	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	200	96	296
BT-2	28 Sep 2023	Soil	Standard	Bucket 2	Normal	11	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	95	<50	95
BT-3	28 Sep 2023	Soil	Standard	Bucket 3	Normal	24	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	240	1,900	1,000	3,140
BT-4	28 Sep 2023	Soil	Standard	Bucket 4	Normal	25	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	25	100	<50	125

Statistics																		
Number of Results						4	4	4	4	4	4	4	4	4	4	4	4	4
Number of Detects						4	0	0	0	0	0	0	0	0	2	4	2	4
Minimum Concentration						11	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	<20	95	<50	95
Maximum Concentration						26	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<20	240	1,900	1,000	3,140



	TRH						
	C6-C10 Fraction (F1)	C6-C10 (F1 minus BTEX)	>C10- C16 Fraction (F2)	>C10- C16 Fraction (F2 minus Naphthalene)	>C16- C34 Fraction (F3)	>C34- C40 Fraction (F4)	>C10- C40 Fraction (Sum)
	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
EQL	20	20	50	50	100	100	100

Field ID	Date	Matrix Type	Matrix Description	Sample Comments	Sample Type							
BT-1	28 Sep 2023	Soil	Standard	Bucket 1	Normal	<20	<20	<50	<50	270	<100	270
BT-2	28 Sep 2023	Soil	Standard	Bucket 2	Normal	<20	<20	<50	<50	100	<100	100
BT-3	28 Sep 2023	Soil	Standard	Bucket 3	Normal	<20	<20	380	380	2,500	670	3,550
BT-4	28 Sep 2023	Soil	Standard	Bucket 4	Normal	<20	<20	52	52	<100	<100	<100

Statistics												
Number of Results						4	4	4	4	4	4	4
Number of Detects						0	0	2	2	3	1	3
Minimum Concentration						<20	<20	<50	<50	100	<100	100
Maximum Concentration						<20	<20	380	380	2,500	670	3,550



	Physical	Perfluoroalkane Carboxylic Acids								
	Moisture Content (dried @ 103°C)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)
	%	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
EQL	1	5	5	5	5	5	5	5	5	5

Field ID	Date	Matrix Type	Matrix Description	Sample Comments	Sample Type										
BT-1-0-1	28 Sep 2023	Soil	TOPA	Bucket 1, 0% Rembind, Replicate 1	Normal	30	<5	<5	<5	<5	<5	<5	<5	<5	<5
BT-1-0-2	28 Sep 2023	Soil	TOPA	Bucket 1, 0% Rembind, Replicate 2	Normal	29	<5	<5	<5	<5	<5	<5	<5	<5	<5
BT-1-0-3	28 Sep 2023	Soil	TOPA	Bucket 1, 0% Rembind, Replicate 3	Normal	30	<5	<7	<5	<5	<5	<5	<5	<5	<5
BT-2-0-1	28 Sep 2023	Soil	TOPA	Bucket 2, 0% Rembind, Replicate 1	Normal	12	290	560	340	510	91	17	<5	<5	<5
BT-2-0-2	28 Sep 2023	Soil	TOPA	Bucket 2, 0% Rembind, Replicate 2	Normal	8.6	230	490	270	430	90	13	<5	<5	<5
BT-2-0-3	28 Sep 2023	Soil	TOPA	Bucket 2, 0% Rembind, Replicate 3	Normal	12	260	550	340	600	90	18	<5	<5	<5
BT-3-0-1	28 Sep 2023	Soil	TOPA	Bucket 3, 0% Rembind, Replicate 1	Normal	23	190	440	420	150	22	<5	<5	<5	<5
BT-3-0-2	28 Sep 2023	Soil	TOPA	Bucket 3, 0% Rembind, Replicate 2	Normal	22	200	460	520	110	20	<5	<5	<5	<5
BT-3-0-3	28 Sep 2023	Soil	TOPA	Bucket 3, 0% Rembind, Replicate 3	Normal	23	210	520	620	220	24	<5	<5	<5	<5
BT-4-0-1	28 Sep 2023	Soil	TOPA	Bucket 4, 0% Rembind, Replicate 1	Normal	23	<5	<5	10	<5	<5	<5	<5	<5	<5
BT-4-0-2	28 Sep 2023	Soil	TOPA	Bucket 4, 0% Rembind, Replicate 2	Normal	27	<5	<5	7.3	<5	<5	<5	<5	<5	<5
BT-4-0-3	28 Sep 2023	Soil	TOPA	Bucket 4, 0% Rembind, Replicate 3	Normal	25	6.5	12	14	<5	<5	<5	<5	<5	<5

Statistics															
Number of Results						12	12	12	12	12	12	12	12	12	12
Number of Detects						12	7	7	9	6	6	3	0	0	0
Minimum Concentration						8.6	<5	<5	<5	<5	<5	<5	<5	<5	<5
Maximum Concentration						30	290	560	620	600	91	18	<5	<5	<5



EQL			Perfluoroalkane Sulfonic Acids							
	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluoropropanesulfonic acid (PFPrS)	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorodecane sulfonic acid (PFDS)	Perfluorononanesulfonic acid (PFNS)
	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
	5	5	5	5	5	5	5	5	5	5

Field ID	Date	Matrix Type	Matrix Description	Sample Comments	Sample Type										
BT-1-0-1	28 Sep 2023	Soil	TOPA	Bucket 1, 0% Rembind, Replicate 1	Normal	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BT-1-0-2	28 Sep 2023	Soil	TOPA	Bucket 1, 0% Rembind, Replicate 2	Normal	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BT-1-0-3	28 Sep 2023	Soil	TOPA	Bucket 1, 0% Rembind, Replicate 3	Normal	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BT-2-0-1	28 Sep 2023	Soil	TOPA	Bucket 2, 0% Rembind, Replicate 1	Normal	<5	<5	<5	<5	<5	7.3	<5	<5	<5	<5
BT-2-0-2	28 Sep 2023	Soil	TOPA	Bucket 2, 0% Rembind, Replicate 2	Normal	<5	<5	<5	<5	<5	5.4	<5	<5	<5	<5
BT-2-0-3	28 Sep 2023	Soil	TOPA	Bucket 2, 0% Rembind, Replicate 3	Normal	<5	<5	<5	<5	<5	7.0	<5	<5	<5	<5
BT-3-0-1	28 Sep 2023	Soil	TOPA	Bucket 3, 0% Rembind, Replicate 1	Normal	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BT-3-0-2	28 Sep 2023	Soil	TOPA	Bucket 3, 0% Rembind, Replicate 2	Normal	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BT-3-0-3	28 Sep 2023	Soil	TOPA	Bucket 3, 0% Rembind, Replicate 3	Normal	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BT-4-0-1	28 Sep 2023	Soil	TOPA	Bucket 4, 0% Rembind, Replicate 1	Normal	<5	<5	<5	<5	<5	10	<5	<5	<5	<5
BT-4-0-2	28 Sep 2023	Soil	TOPA	Bucket 4, 0% Rembind, Replicate 2	Normal	<5	<5	<5	<5	<5	8.5	<5	<5	<5	<5
BT-4-0-3	28 Sep 2023	Soil	TOPA	Bucket 4, 0% Rembind, Replicate 3	Normal	<5	<5	<5	<5	<5	7.7	<5	<5	<5	<5

Statistics															
Number of Results						12	12	12	12	12	12	12	12	12	12
Number of Detects						0	0	0	0	0	6	0	0	0	0
Minimum Concentration						<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Maximum Concentration						<5	<5	<5	<5	<5	10	<5	<5	<5	<5



	(n:2) Fluorotelomer Sulfonic Acids				Perfluoroalkyl Sulfonamides					
	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)
	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
EQL	5	10	5	5	5	5	10	5	5	10

Field ID	Date	Matrix Type	Matrix Description	Sample Comments	Sample Type										
BT-1-0-1	28 Sep 2023	Soil	TOPA	Bucket 1, 0% Rembind, Replicate 1	Normal	<5	<10	<5	<5	<5	<5	<10	<5	<5	<10
BT-1-0-2	28 Sep 2023	Soil	TOPA	Bucket 1, 0% Rembind, Replicate 2	Normal	<5	<10	<5	<5	<5	<5	<10	<5	<5	<10
BT-1-0-3	28 Sep 2023	Soil	TOPA	Bucket 1, 0% Rembind, Replicate 3	Normal	<5	<10	<5	<5	<5	<5	<10	<5	<5	<10
BT-2-0-1	28 Sep 2023	Soil	TOPA	Bucket 2, 0% Rembind, Replicate 1	Normal	<5	<10	<5	<5	<5	<5	<10	<5	<5	<10
BT-2-0-2	28 Sep 2023	Soil	TOPA	Bucket 2, 0% Rembind, Replicate 2	Normal	<5	<10	<5	<5	<5	<5	<10	<5	<5	<10
BT-2-0-3	28 Sep 2023	Soil	TOPA	Bucket 2, 0% Rembind, Replicate 3	Normal	<5	<10	<5	<5	<5	<5	<10	<5	<5	<10
BT-3-0-1	28 Sep 2023	Soil	TOPA	Bucket 3, 0% Rembind, Replicate 1	Normal	15	3,500	520	16	<5	<5	<10	<5	<5	<10
BT-3-0-2	28 Sep 2023	Soil	TOPA	Bucket 3, 0% Rembind, Replicate 2	Normal	12	4,600	600	15	<5	<5	<10	<5	<5	<10
BT-3-0-3	28 Sep 2023	Soil	TOPA	Bucket 3, 0% Rembind, Replicate 3	Normal	17	4,700	730	17	<5	<5	<10	<5	<5	<10
BT-4-0-1	28 Sep 2023	Soil	TOPA	Bucket 4, 0% Rembind, Replicate 1	Normal	<5	<10	<5	<5	<5	<5	<10	<5	<5	<10
BT-4-0-2	28 Sep 2023	Soil	TOPA	Bucket 4, 0% Rembind, Replicate 2	Normal	<5	<10	<5	<5	<5	<5	<10	<5	<5	<10
BT-4-0-3	28 Sep 2023	Soil	TOPA	Bucket 4, 0% Rembind, Replicate 3	Normal	<5	<10	<5	<5	<5	<5	<10	<5	<5	<10

Statistics															
Number of Results						12	12	12	12	12	12	12	12	12	12
Number of Detects						3	3	3	3	0	0	0	0	0	0
Minimum Concentration						<5	<10	<5	<5	<5	<5	<10	<5	<5	<10
Maximum Concentration						17	4,700	730	17	<5	<5	<10	<5	<5	<10



EQL	Perfluoroalkane Carboxylic Acids											
	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTriDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluoropropenesulfonic acid (PFPrS)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L

Field ID	Date	Matrix Type	Matrix Description	Sample Comments	Sample Type												
BT-1-0-1	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 0% Rembind, Replicate 1	Normal	<0.05	0.10	0.09	0.05	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BT-1-0-2	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 0% Rembind, Replicate 2	Normal	0.16	0.27	0.23	0.06	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BT-1-0-3	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 0% Rembind, Replicate 3	Normal	0.07	0.14	0.13	0.04	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BT-1-1-1	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 1% Rembind, Replicate 1	Normal	<0.05	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BT-1-1-2	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 1% Rembind, Replicate 2	Normal	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
BT-1-1-3	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 1% Rembind, Replicate 3	Normal	<0.05	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BT-1-3-1	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 3% Rembind, Replicate 1	Normal	0.13	0.25	0.22	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BT-1-3-2	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 3% Rembind, Replicate 2	Normal	<0.05	0.01	0.02	<0.01	0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BT-1-3-3	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 3% Rembind, Replicate 3	Normal	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	0.23	0.34	0.15	0.10	<0.1	<0.1
BT-1-5-1	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 5% Rembind, Replicate 1	Normal	<0.05	0.01	0.01	<0.01	<0.01	<0.01	0.02	0.03	0.03	<0.01	<0.01	<0.01
BT-1-5-2	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 5% Rembind, Replicate 2	Normal	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
BT-1-5-3	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 5% Rembind, Replicate 3	Normal	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
BT-2-0-1	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 0% Rembind, Replicate 1	Normal	19	36	25	40	22	2.1	0.06	0.03	0.02	<0.01	<0.01	<0.01
BT-2-0-2	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 0% Rembind, Replicate 2	Normal	9.6	19	16	19	7.0	1.0	0.03	0.02	<0.01	<0.01	<0.01	<0.01
BT-2-0-3	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 0% Rembind, Replicate 3	Normal	12	20	16	20	8.8	0.96	0.03	0.01	<0.01	<0.01	<0.01	<0.01
BT-2-1-1	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 1% Rembind, Replicate 1	Normal	3.8	6.7	5.4	7.1	2.9	0.42	0.03	0.02	<0.01	<0.01	<0.01	<0.01
BT-2-1-2	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 1% Rembind, Replicate 2	Normal	<0.5	6.2	8.2	16	3.5	1.0	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1
BT-2-1-3	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 1% Rembind, Replicate 3	Normal	2.2	4.8	4.8	6.5	2.4	0.50	<0.01	0.02	<0.01	<0.01	<0.01	<0.01
BT-2-3-1	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 3% Rembind, Replicate 1	Normal	1.2	2.2	2.4	2.7	1.7	0.21	0.03	0.02	0.01	<0.01	<0.01	<0.01
BT-2-3-2	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 3% Rembind, Replicate 2	Normal	1.2	2.4	2.1	2.8	1.6	0.19	0.02	0.02	0.02	<0.01	<0.01	<0.01
BT-2-3-3	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 3% Rembind, Replicate 3	Normal	0.94	2.1	2.3	2.8	1.3	0.22	0.03	0.02	<0.01	<0.01	<0.01	<0.01
BT-2-5-1	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 5% Rembind, Replicate 1	Normal	1.2	2.0	2.3	2.8	1.8	0.23	0.03	0.01	0.01	<0.01	<0.01	<0.01
BT-2-5-2	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 5% Rembind, Replicate 2	Normal	1.4	2.4	2.3	3.4	2.0	0.26	0.03	0.02	0.01	<0.01	<0.01	<0.01
BT-2-5-3	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 5% Rembind, Replicate 3	Normal	2.7	3.5	3.2	4.9	2.1	0.36	0.05	0.03	0.02	<0.01	<0.01	<0.01
BT-3-0-1	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 0% Rembind, Replicate 1	Normal	45	110	45	13	3.6	0.25	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
BT-3-0-2	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 0% Rembind, Replicate 2	Normal	25	89	37	11	2.1	0.22	0.02	0.02	<0.01	<0.01	<0.01	0.03
BT-3-0-3	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 0% Rembind, Replicate 3	Normal	22	120	35	15	2.3	0.33	0.02	<0.01	<0.01	<0.01	<0.01	0.04
BT-3-1-1	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 1% Rembind, Replicate 1	Normal	10	23	9.7	2.5	0.62	0.13	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BT-3-1-2	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 1% Rembind, Replicate 2	Normal	14	34	14	3.1	0.80	0.11	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BT-3-1-3	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 1% Rembind, Replicate 3	Normal	13	24	15	3.6	0.86	0.14	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BT-3-3-1	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 3% Rembind, Replicate 1	Normal	5.2	8.4	3.7	0.80	0.22	0.06	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BT-3-3-2	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 3% Rembind, Replicate 2	Normal	6.1	11	4.3	1.0	0.34	0.08	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BT-3-3-3	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 3% Rembind, Replicate 3	Normal	6.3	11	3.7	0.78	0.18	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BT-3-5-1	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 5% Rembind, Replicate 1	Normal	5.4	4.2	1.0	0.21	0.05	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BT-3-5-2	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 5% Rembind, Replicate 2	Normal	4.4	3.5	1.2	0.31	0.08	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BT-3-5-3	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 5% Rembind, Replicate 3	Normal	4.4	5.2	1.3	0.23	0.07	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BT-4-0-1	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 0% Rembind, Replicate 1	Normal	0.22	0.30	1.3	0.25	0.35	0.02	0.01	<0.01	<0.01	<0.01	<0.01	0.01
BT-4-0-2	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 0% Rembind, Replicate 2	Normal	0.11	0.17	0.69	0.14	0.17	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BT-4-0-3	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 0% Rembind, Replicate 3	Normal	0.23	0.33	1.2	0.21	0.26	0.02	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BT-4-1-1	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 1% Rembind, Replicate 1	Normal	<0.05	0.02	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BT-4-1-2	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 1% Rembind, Replicate 2	Normal	<0.05	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BT-4-1-3	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 1% Rembind, Replicate 3	Normal	<0.05	0.02	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BT-4-3-1	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 3% Rembind, Replicate 1	Normal	<0.05	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BT-4-3-2	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 3% Rembind, Replicate 2	Normal	<0.05	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BT-4-3-3	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 3% Rembind, Replicate 3	Normal	2.4	1.1	0.09	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BT-4-5-1	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 5% Rembind, Replicate 1	Normal	<0.05	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BT-4-5-2	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 5% Rembind, Replicate 2	Normal	<0.05	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BT-4-5-3	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 5% Rembind, Replicate 3	Normal	<0.05	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Statistics																	
Number of Results						48	48	48	48	48	48	48	48	48	48	48	48
Number of Detects						30	41	43	31	31	28	17	14	8	1	0	3
Minimum Concentration						<0.05	0.01	0.01	<0.01	0.01	0.01	0.01	0.01	0.01	<0.01	<0.01	0.01
Maximum Concentration						45	120	45	40	22	2.1	0.23	0.34	0.15	0.1	<0.2	<0.1



EQL	Perfluoroalkane Sulfonic Acids							(n:2) Fluorotelomer Sulfonic Acids				Perfluorooctane sulfonamide (FOSA)
	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOs)	Perfluorodecane sulfonic acid (PFDS)	Perfluorononanesulfonic acid (PFNS)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.05

Field ID	Date	Matrix Type	Matrix Description	Sample Comments	Sample Type												
BT-1-0-1	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 0% Rembind, Replicate 1	Normal	<0.01	<0.01	0.01	<0.01	0.05	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-1-0-2	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 0% Rembind, Replicate 2	Normal	<0.01	<0.01	0.01	<0.01	0.08	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-1-0-3	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 0% Rembind, Replicate 3	Normal	<0.01	<0.01	0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-1-1-1	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 1% Rembind, Replicate 1	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	0.01	<0.01	<0.05
BT-1-1-2	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 1% Rembind, Replicate 2	Normal	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1	<0.2
BT-1-1-3	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 1% Rembind, Replicate 3	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-1-3-1	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 3% Rembind, Replicate 1	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-1-3-2	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 3% Rembind, Replicate 2	Normal	<0.01	<0.01	<0.01	0.02	0.10	0.08	0.13	<0.01	<0.05	<0.01	<0.01	<0.05
BT-1-3-3	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 3% Rembind, Replicate 3	Normal	<0.1	<0.1	<0.1	<0.1	0.17	0.11	0.21	<0.1	<0.5	<0.1	<0.1	<0.2
BT-1-5-1	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 5% Rembind, Replicate 1	Normal	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-1-5-2	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 5% Rembind, Replicate 2	Normal	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1	<0.2
BT-1-5-3	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 5% Rembind, Replicate 3	Normal	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1	<0.2
BT-2-0-1	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 0% Rembind, Replicate 1	Normal	0.02	0.07	0.22	0.12	4.5	<0.01	0.02	<0.01	<0.05	0.03	<0.01	<0.05
BT-2-0-2	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 0% Rembind, Replicate 2	Normal	0.02	0.02	0.18	0.07	1.9	<0.01	<0.01	<0.01	<0.05	0.02	<0.01	<0.05
BT-2-0-3	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 0% Rembind, Replicate 3	Normal	0.01	0.05	0.22	0.10	2.7	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-2-1-1	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 1% Rembind, Replicate 1	Normal	<0.01	0.01	0.03	0.01	1.1	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-2-1-2	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 1% Rembind, Replicate 2	Normal	<0.1	<0.1	<0.1	<0.1	0.66	<0.1	<0.01	<0.1	<0.5	<0.1	<0.1	<0.2
BT-2-1-3	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 1% Rembind, Replicate 3	Normal	<0.01	<0.01	0.02	<0.01	0.46	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-2-3-1	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 3% Rembind, Replicate 1	Normal	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-2-3-2	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 3% Rembind, Replicate 2	Normal	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-2-3-3	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 3% Rembind, Replicate 3	Normal	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-2-5-1	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 5% Rembind, Replicate 1	Normal	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-2-5-2	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 5% Rembind, Replicate 2	Normal	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-2-5-3	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 5% Rembind, Replicate 3	Normal	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-3-0-1	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 0% Rembind, Replicate 1	Normal	0.01	0.10	0.01	<0.01	0.07	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-3-0-2	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 0% Rembind, Replicate 2	Normal	0.02	0.06	0.01	<0.01	0.04	<0.01	0.01	<0.01	<0.05	0.01	<0.01	<0.05
BT-3-0-3	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 0% Rembind, Replicate 3	Normal	0.02	0.06	0.01	<0.01	0.05	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-3-1-1	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 1% Rembind, Replicate 1	Normal	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-3-1-2	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 1% Rembind, Replicate 2	Normal	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-3-1-3	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 1% Rembind, Replicate 3	Normal	<0.01	0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-3-3-1	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 3% Rembind, Replicate 1	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-3-3-2	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 3% Rembind, Replicate 2	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-3-3-3	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 3% Rembind, Replicate 3	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-3-5-1	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 5% Rembind, Replicate 1	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-3-5-2	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 5% Rembind, Replicate 2	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-3-5-3	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 5% Rembind, Replicate 3	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-4-0-1	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 0% Rembind, Replicate 1	Normal	0.03	0.04	0.37	0.04	6.9	<0.01	0.02	<0.01	<0.05	<0.01	<0.01	<0.05
BT-4-0-2	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 0% Rembind, Replicate 2	Normal	0.02	0.02	0.21	0.02	3.4	<0.01	0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-4-0-3	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 0% Rembind, Replicate 3	Normal	0.03	0.06	0.28	0.04	5.4	<0.01	0.02	<0.01	<0.05	<0.01	<0.01	<0.05
BT-4-1-1	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 1% Rembind, Replicate 1	Normal	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-4-1-2	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 1% Rembind, Replicate 2	Normal	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-4-1-3	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 1% Rembind, Replicate 3	Normal	<0.01	<0.01	<0.01	<0.01	0.08	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-4-3-1	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 3% Rembind, Replicate 1	Normal	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-4-3-2	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 3% Rembind, Replicate 2	Normal	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-4-3-3	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 3% Rembind, Replicate 3	Normal	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-4-5-1	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 5% Rembind, Replicate 1	Normal	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-4-5-2	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 5% Rembind, Replicate 2	Normal	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05
BT-4-5-3	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 5% Rembind, Replicate 3	Normal	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05

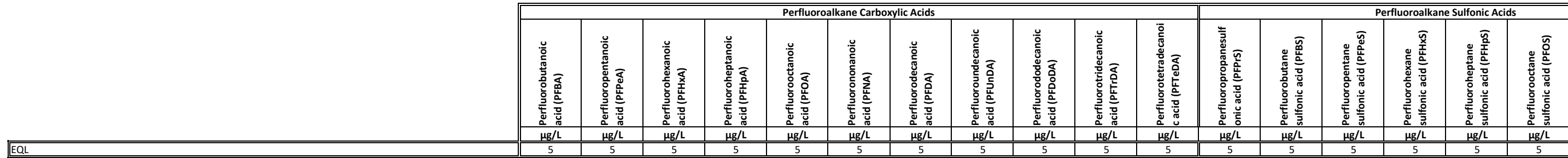
Statistics												
Number of Results						48	48	48	48	48	48	48
Number of Detects						9	11	14	8	36	2	8
Minimum Concentration						0.01	0.01	0.01	0.01	0.01	<0.01	0.01
Maximum Concentration						<0.1	0.1	0.37	0.12	6.9	0.11	0.21



EQL	Perfluoroalkyl Sulfonamides						PFAS		Leaching Preparation	
	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	Sum of PFHxS and PFOS	Sum of PFAS	pH of Leaching Fluid	pH (Final)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	-	-
EQL	0.05	0.05	0.05	0.05	0.05	0.05	0.01	0.1	0.1	0.1

Field ID	Date	Matrix Type	Matrix Description	Sample Comments	Sample Type										
BT-1-0-1	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 0% Rembind, Replicate 1	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	0.32	7.0	10
BT-1-0-2	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 0% Rembind, Replicate 2	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.09	0.83	7.0	10
BT-1-0-3	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 0% Rembind, Replicate 3	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.04	0.44	7.0	10
BT-1-1-1	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 1% Rembind, Replicate 1	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.1	7.0	11
BT-1-1-2	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 1% Rembind, Replicate 2	Normal	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.1	<0.5	7.0	10
BT-1-1-3	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 1% Rembind, Replicate 3	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.1	7.0	10
BT-1-3-1	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 3% Rembind, Replicate 1	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.62	7.0	10
BT-1-3-2	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 3% Rembind, Replicate 2	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.1	0.4	7.0	10
BT-1-3-3	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 3% Rembind, Replicate 3	Normal	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.17	1.31	7.0	10
BT-1-5-1	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 5% Rembind, Replicate 1	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.02	0.13	7.0	10
BT-1-5-2	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 5% Rembind, Replicate 2	Normal	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.1	<0.5	7.0	10
BT-1-5-3	28 Sep 2023	Water	ASLP TOPA	Bucket 1, 5% Rembind, Replicate 3	Normal	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.1	<0.5	7.0	10
BT-2-0-1	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 0% Rembind, Replicate 1	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	4.72	149.19	7.0	6.6
BT-2-0-2	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 0% Rembind, Replicate 2	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	2.08	73.86	7.0	6.2
BT-2-0-3	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 0% Rembind, Replicate 3	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	2.92	80.88	7.0	6.6
BT-2-1-1	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 1% Rembind, Replicate 1	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.13	27.52	7.0	6.9
BT-2-1-2	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 1% Rembind, Replicate 2	Normal	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.66	35.56	7.0	5.9
BT-2-1-3	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 1% Rembind, Replicate 3	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.48	21.7	7.0	6.7
BT-2-3-1	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 3% Rembind, Replicate 1	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.04	10.51	7.0	7.0
BT-2-3-2	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 3% Rembind, Replicate 2	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.04	10.39	7.0	7.3
BT-2-3-3	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 3% Rembind, Replicate 3	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.03	9.74	7.0	6.9
BT-2-5-1	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 5% Rembind, Replicate 1	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.03	10.41	7.0	7.2
BT-2-5-2	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 5% Rembind, Replicate 2	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.03	11.85	7.0	7.3
BT-2-5-3	28 Sep 2023	Water	ASLP TOPA	Bucket 2, 5% Rembind, Replicate 3	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	16.91	7.0	7.2
BT-3-0-1	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 0% Rembind, Replicate 1	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	217.06	7.0	2.7
BT-3-0-2	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 0% Rembind, Replicate 2	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	164.54	7.0	2.5
BT-3-0-3	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 0% Rembind, Replicate 3	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	194.83	7.0	2.5
BT-3-1-1	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 1% Rembind, Replicate 1	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.03	45.98	7.0	2.7
BT-3-1-2	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 1% Rembind, Replicate 2	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.02	66.03	7.0	2.6
BT-3-1-3	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 1% Rembind, Replicate 3	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.02	56.63	7.0	2.6
BT-3-3-1	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 3% Rembind, Replicate 1	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	18.38	7.0	2.6
BT-3-3-2	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 3% Rembind, Replicate 2	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	22.82	7.0	2.6
BT-3-3-3	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 3% Rembind, Replicate 3	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	22	7.0	2.7
BT-3-5-1	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 5% Rembind, Replicate 1	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	10.87	7.0	2.7
BT-3-5-2	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 5% Rembind, Replicate 2	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	9.51	7.0	2.7
BT-3-5-3	28 Sep 2023	Water	ASLP TOPA	Bucket 3, 5% Rembind, Replicate 3	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	11.22	7.0	2.6
BT-4-0-1	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 0% Rembind, Replicate 1	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	7.27	9.86	7.0	9.6
BT-4-0-2	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 0% Rembind, Replicate 2	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	3.61	4.97	7.0	9.4
BT-4-0-3	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 0% Rembind, Replicate 3	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	5.68	8.09	7.0	9.9
BT-4-1-1	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 1% Rembind, Replicate 1	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.04	<0.1	7.0	10
BT-4-1-2	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 1% Rembind, Replicate 2	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.03	<0.1	7.0	10
BT-4-1-3	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 1% Rembind, Replicate 3	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	0.13	7.0	10
BT-4-3-1	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 3% Rembind, Replicate 1	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.02	<0.1	7.0	9.5
BT-4-3-2	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 3% Rembind, Replicate 2	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.01	<0.1	7.0	9.8
BT-4-3-3	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 3% Rembind, Replicate 3	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.02	3.61	7.0	10.0
BT-4-5-1	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 5% Rembind, Replicate 1	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.03	<0.1	7.0	10
BT-4-5-2	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 5% Rembind, Replicate 2	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.01	<0.1	7.0	9.5
BT-4-5-3	28 Sep 2023	Water	ASLP TOPA	Bucket 4, 5% Rembind, Replicate 3	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.01	<0.1	7.0	10

Statistics										
Number of Results						48	48	48	48	48
Number of Detects						0	0	0	0	0
Minimum Concentration						<0.05	<0.05	<0.05	<0.05	<0.05
Maximum Concentration						<0.2	<0.2	<0.2	<0.2	<0.2

[illegible][illegible]

	PFAS															
	Perfluorooctanesulfonic acid (PFOS)		(n:2) Fluorotelomer Sulfonic Acids				Perfluoroalkyl Sulfonamides								PFAS	
	Perfluorooctanesulfonic acid (PFOS)	Perfluorodecane sulfonic acid (PFDS)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	Sum of PFHxS and PFOS	Sum of PFAS	
EQI	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
	5	5	5	10	5	5	5	5	10	5	5	10	5	5	50	

[illegible][illegible]



	Physical	Perfluoroalkane Carboxylic Acids										
	Moisture Content (dried @ 103°C)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTriDA)	Perfluorotetradecanoi c acid (PFTeDA)
	%	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
EQL	1	5	5	5	5	5	5	5	5	5	5	5
QLD Solid Category 1 Regulated Waste												
QLD Solid Category 2 Regulated Waste												

Field ID	Date	Matrix Type	Matrix Description	Sample Comments	Sample Type												
B1-1	16 Oct 2023	Soil	TOPA	Pre Trial Batch1- Bucket 1	Normal	24	73	280	130	25	7.0	<5	<5	<5	<5	<5	<5
B1-2	16 Oct 2023	Soil	TOPA	Pre Trial Batch1- Bucket 2	Normal	27	89	220	110	33	9.8	<5	<5	<5	<5	<5	<5
B1-3	16 Oct 2023	Soil	TOPA	Pre Trial Batch1- Bucket 3	Normal	27	46	120	68	12	<5	<5	<5	<5	<5	<5	<5
B1-4	16 Oct 2023	Soil	TOPA	Pre Trial Batch1- Bucket 4	Normal	27	81	190	93	23	6.8	<5	<5	<5	<5	<5	<5
B1-6	16 Oct 2023	Soil	TOPA	Pre Trial Batch1- Bucket 6	Normal	26	85	190	98	22	6.5	<5	<5	<5	<5	<5	<5
B2-1	16 Oct 2023	Soil	TOPA	Pre Trial Batch2- Bucket 1	Normal	7.9	21	37	26	37	12	<5	<5	<5	<5	<5	<5
B2-2	16 Oct 2023	Soil	TOPA	Pre Trial Batch2- Bucket 2	Normal	6.1	25	41	30	48	14	<5	<5	<5	<5	<5	<5
B2-3	16 Oct 2023	Soil	TOPA	Pre Trial Batch2- Bucket 3	Normal	6.1	17	25	16	22	6.4	<5	<5	<5	<5	<5	<5
B2-4	16 Oct 2023	Soil	TOPA	Pre Trial Batch2- Bucket 4	Normal	6.9	14	23	17	27	9.6	<5	<5	<5	<5	<5	<5
B2-6	17 Oct 2023	Soil	TOPA	Pre Trial Batch2- Bucket 6	Normal	6.3	25	43	31	49	20	<5	<5	<5	<5	<5	<5
B3-1	16 Oct 2023	Soil	TOPA	Pre Trial Batch3- Bucket 1	Normal	19	5.0	8.9	6.0	<5	<5	<5	<5	<5	<5	<5	<5
B3-2	16 Oct 2023	Soil	TOPA	Pre Trial Batch3- Bucket 2	Normal	17	<5	7.9	6.4	<5	<5	<5	<5	<5	<5	<5	<5
B3-3	16 Oct 2023	Soil	TOPA	Pre Trial Batch3- Bucket 3	Normal	19	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
B3-4	16 Oct 2023	Soil	TOPA	Pre Trial Batch3- Bucket 4	Normal	15	<5	7.0	<5	<5	<5	<5	<5	<5	<5	<5	<5
B3-6	17 Oct 2023	Soil	TOPA	Pre Trial Batch3- Bucket 6	Normal	19	<5	5.8	5.3	<5	<5	<5	<5	<5	<5	<5	<5

Statistics													
Number of Results						15	15	15	15	15	15	15	15
Number of Detects						15	11	14	13	10	9	0	0
Minimum Concentration						6.1	5	<5	<5	<5	<5	<5	<5
Maximum Concentration						27	89	280	130	49	20	<5	<5

Environmental Standards

DES, 4 Feb 2019, QLD Solid Category 1 Regulated Waste

DES, 4 Feb 2019, QLD Solid Category 2 Regulated Waste



	Perfluoroalkane Sulfonic Acids								(n:2) Fluorotelomer Sulfonic Acids			
	Perfluoropropanesulfonic acid (PFPrS)	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecane sulfonic acid (PFDS)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)
	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
EQL	5	5	5	5	5	5	5	5	5	10	5	5
QLD Solid Category 1 Regulated Waste												
QLD Solid Category 2 Regulated Waste												

Field ID	Date	Matrix Type	Matrix Description	Sample Comments	Sample Type												
B1-1	16 Oct 2023	Soil	TOPA	Pre Trial Batch1- Bucket 1	Normal	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5
B1-2	16 Oct 2023	Soil	TOPA	Pre Trial Batch1- Bucket 2	Normal	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5
B1-3	16 Oct 2023	Soil	TOPA	Pre Trial Batch1- Bucket 3	Normal	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5
B1-4	16 Oct 2023	Soil	TOPA	Pre Trial Batch1- Bucket 4	Normal	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5
B1-6	16 Oct 2023	Soil	TOPA	Pre Trial Batch1- Bucket 6	Normal	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5
B2-1	16 Oct 2023	Soil	TOPA	Pre Trial Batch2- Bucket 1	Normal	<5	<5	<5	<5	<5	11	<5	<5	<5	<10	<5	<5
B2-2	16 Oct 2023	Soil	TOPA	Pre Trial Batch2- Bucket 2	Normal	<5	<5	<5	<5	<5	13	<5	<5	<5	<10	<5	<5
B2-3	16 Oct 2023	Soil	TOPA	Pre Trial Batch2- Bucket 3	Normal	<5	<5	<5	<5	<5	7.0	<5	<5	<5	<10	<5	<5
B2-4	16 Oct 2023	Soil	TOPA	Pre Trial Batch2- Bucket 4	Normal	<5	<5	<5	<5	<5	13	<5	<5	<5	<10	<5	<5
B2-6	17 Oct 2023	Soil	TOPA	Pre Trial Batch2- Bucket 6	Normal	<5	<5	<5	<5	<5	14	<5	<5	<5	<10	<5	<5
B3-1	16 Oct 2023	Soil	TOPA	Pre Trial Batch3- Bucket 1	Normal	<5	<5	<5	6.7	<5	66	<5	<5	<5	<10	<5	<5
B3-2	16 Oct 2023	Soil	TOPA	Pre Trial Batch3- Bucket 2	Normal	<5	<5	<5	8.1	<5	60	<5	<5	<5	<10	<5	<5
B3-3	16 Oct 2023	Soil	TOPA	Pre Trial Batch3- Bucket 3	Normal	<5	<5	<5	6.0	<5	61	<5	<5	<5	<10	<5	<5
B3-4	16 Oct 2023	Soil	TOPA	Pre Trial Batch3- Bucket 4	Normal	<5	<5	<5	5.1	<5	66	<5	<5	<5	<10	<5	<5
B3-6	17 Oct 2023	Soil	TOPA	Pre Trial Batch3- Bucket 6	Normal	<5	<5	<5	7.4	<5	68	<5	<5	<5	<10	<5	<5

Statistics													
Number of Results						15	15	15	15	15	15	15	15
Number of Detects						0	0	0	5	0	10	0	0
Minimum Concentration						<5	<5	<5	<5	<5	<5	<5	<5
Maximum Concentration						<5	<5	<5	8.1	<5	68	<5	<5

Environmental Standards
DES, 4 Feb 2019, QLD Solid Category 1 Regulated Waste
DES, 4 Feb 2019, QLD Solid Category 2 Regulated Waste

	Perfluoroalkyl Sulfonamides							PFAS	
	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	Sum of PFHxS and PFOS	Sum of PFAS
	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
EQL	5	5	10	5	5	10	5	5	50
QLD Solid Category 1 Regulated Waste									0
QLD Solid Category 2 Regulated Waste									0

Field ID	Date	Matrix Type	Matrix Description	Sample Comments	Sample Type									
B1-1	16 Oct 2023	Soil	TOPA	Pre Trial Batch1- Bucket 1	Normal	<5	<5	<10	<5	<5	<10	<5	<5	515
B1-2	16 Oct 2023	Soil	TOPA	Pre Trial Batch1- Bucket 2	Normal	<5	<5	<10	<5	<5	<10	<5	<5	461.8
B1-3	16 Oct 2023	Soil	TOPA	Pre Trial Batch1- Bucket 3	Normal	<5	<5	<10	<5	<5	<10	<5	<5	246
B1-4	16 Oct 2023	Soil	TOPA	Pre Trial Batch1- Bucket 4	Normal	<5	<5	<10	<5	<5	<10	<5	<5	393.8
B1-6	16 Oct 2023	Soil	TOPA	Pre Trial Batch1- Bucket 6	Normal	<5	<5	<10	<5	<5	<10	<5	<5	401.5
B2-1	16 Oct 2023	Soil	TOPA	Pre Trial Batch2- Bucket 1	Normal	<5	<5	<10	<5	<5	<10	<5	11	144
B2-2	16 Oct 2023	Soil	TOPA	Pre Trial Batch2- Bucket 2	Normal	<5	<5	<10	<5	<5	<10	<5	13	171
B2-3	16 Oct 2023	Soil	TOPA	Pre Trial Batch2- Bucket 3	Normal	<5	<5	<10	<5	<5	<10	<5	7	93.4
B2-4	16 Oct 2023	Soil	TOPA	Pre Trial Batch2- Bucket 4	Normal	<5	<5	<10	<5	<5	<10	<5	13	103.6
B2-6	17 Oct 2023	Soil	TOPA	Pre Trial Batch2- Bucket 6	Normal	<5	<5	<10	<5	<5	<10	<5	14	182
B3-1	16 Oct 2023	Soil	TOPA	Pre Trial Batch3- Bucket 1	Normal	<5	<5	<10	<5	<5	<10	<5	72.7	92.6
B3-2	16 Oct 2023	Soil	TOPA	Pre Trial Batch3- Bucket 2	Normal	<5	<5	<10	<5	<5	<10	<5	68.1	82.4
B3-3	16 Oct 2023	Soil	TOPA	Pre Trial Batch3- Bucket 3	Normal	<5	<5	<10	<5	<5	<10	<5	67	67
B3-4	16 Oct 2023	Soil	TOPA	Pre Trial Batch3- Bucket 4	Normal	<5	<5	<10	<5	<5	<10	<5	71.1	78.1
B3-6	17 Oct 2023	Soil	TOPA	Pre Trial Batch3- Bucket 6	Normal	<5	<5	<10	<5	<5	<10	<5	75.4	86.5

Statistics														
Number of Results						15	15	15	15	15	15	15	15	15
Number of Detects						0	0	0	0	0	0	0	10	15
Minimum Concentration						<5	<5	<10	<5	<5	<10	<5	<5	67
Maximum Concentration						<5	<5	<10	<5	<5	<10	<5	75.4	515

Environmental Standards

DES, 4 Feb 2019, QLD Solid Category 1 Regulated Waste

DES, 4 Feb 2019, QLD Solid Category 2 Regulated Waste



EQL	PFAS		Leaching Preparation		Perfluoroalkane Carboxylic Acids								
	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)	Sum of PFAS (PFOS + PFOA)	pH of Leaching Fluid	pH (Final)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)
	µg/L	µg/L	-	-	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	0.01	0.01	0.1	0.1	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Field ID	Date	Matrix Type	Matrix Description	Sample Comments	Sample Type													
B1-1	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch1- Bucket 1	Normal	0.14	0.14	7.0	11	2.7	7.1	3.1	0.96	0.14	0.03	<0.01	<0.01	<0.01
B1-2	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch1- Bucket 2	Normal	0.24	0.24	7.0	11	2.3	8.9	4.3	1.5	0.24	0.05	<0.01	<0.01	<0.01
B1-3	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch1- Bucket 3	Normal	0.16	0.16	7.0	11	3.8	10	3.5	1.0	0.16	0.03	<0.01	<0.01	<0.01
B1-4	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch1- Bucket 4	Normal	0.2	0.2	7.0	11	3.2	8.1	3.6	1.2	0.20	0.04	<0.01	<0.01	<0.01
B1-6	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch1- Bucket 6	Normal	0.33	0.33	7.0	11	1.3	5.5	3.8	1.5	0.33	0.07	<0.01	<0.01	<0.01
B2-1	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch2- Bucket 1	Normal	0.65	0.63	7.0	6.5	1.7	4.0	2.1	1.8	0.61	0.12	<0.01	<0.01	<0.01
B2-2	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch2- Bucket 2	Normal	0.42	0.4	7.0	5.7	1.3	2.6	1.5	1.0	0.39	0.07	<0.01	<0.01	<0.01
B2-3	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch2- Bucket 3	Normal	0.87	0.85	7.0	6.6	2.3	2.4	2.5	2.2	0.85	0.18	<0.01	<0.01	<0.01
B2-4	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch2- Bucket 4	Normal	0.42	0.41	7.0	6.4	0.90	2.1	1.2	0.95	0.41	0.08	<0.01	<0.01	<0.01
B2-6	17 Oct 2023	Water	ASLP TOPA	Pre Trial Batch2- Bucket 6	Normal	0.89	0.87	7.0	6.7	1.7	3.5	2.4	2.3	0.85	0.17	<0.01	<0.01	<0.01
B3-1	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch3- Bucket 1	Normal	0.53	0.46	7.0	9.4	<0.5	1.0	0.80	0.82	0.43	0.07	<0.01	<0.01	<0.01
B3-2	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch3- Bucket 2	Normal	0.22	0.15	7.0	9.7	0.20	0.40	0.51	0.15	0.13	0.01	<0.01	<0.01	<0.01
B3-3	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch3- Bucket 3	Normal	0.25	0.16	7.0	10	0.30	0.35	0.53	0.23	0.14	0.02	<0.01	<0.01	<0.01
B3-4	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch3- Bucket 4	Normal	0.16	0.11	7.0	10.0	0.18	0.27	0.49	0.13	0.11	<0.01	<0.01	0.02	<0.01
B3-6	17 Oct 2023	Water	ASLP TOPA	Pre Trial Batch3- Bucket 6	Normal	3.12	2.89	7.0	9.9	<0.5	<0.01	0.70	0.19	0.19	0.02	<0.01	<0.01	<0.01

Statistics														
Number of Results						15	15	15	15	15	15	15	15	15
Number of Detects						15	15	15	15	13	14	15	15	14
Minimum Concentration						0.14	0.11	7	5.7	0.18	<0.01	0.49	0.13	0.11
Maximum Concentration						3.12	2.89	7	11	3.8	10	4.3	2.3	0.85



	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluoroalkane Sulfonic Acids								(n:2) Fluorotelomer Sulfonic A		
			Perfluoropropanesulfonic acid (PFPrS)	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluorooctane sulfonic acid (PFOS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecane sulfonic acid (PFDS)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01

Field ID	Date	Matrix Type	Matrix Description	Sample Comments	Sample Type												
B1-1	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch1- Bucket 1	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01
B1-2	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch1- Bucket 2	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01
B1-3	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch1- Bucket 3	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01
B1-4	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch1- Bucket 4	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01
B1-6	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch1- Bucket 6	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01
B2-1	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch2- Bucket 1	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.02	<0.01	<0.01	<0.01	<0.05	<0.01
B2-2	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch2- Bucket 2	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.01	<0.01	<0.01	<0.01	<0.05	<0.01
B2-3	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch2- Bucket 3	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01
B2-4	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch2- Bucket 4	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01
B2-6	17 Oct 2023	Water	ASLP TOPA	Pre Trial Batch2- Bucket 6	Normal	<0.01	<0.01	<0.01	<0.01	0.03	0.02	0.02	<0.01	<0.01	<0.01	<0.05	<0.01
B3-1	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch3- Bucket 1	Normal	<0.01	<0.01	<0.01	<0.01	0.11	0.07	0.03	<0.01	<0.01	<0.01	<0.05	<0.01
B3-2	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch3- Bucket 2	Normal	<0.01	<0.01	<0.01	0.02	0.02	0.07	0.02	<0.01	<0.01	<0.01	<0.05	<0.01
B3-3	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch3- Bucket 3	Normal	<0.01	<0.01	<0.01	0.02	0.02	0.09	0.02	<0.01	<0.01	<0.01	<0.05	<0.01
B3-4	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch3- Bucket 4	Normal	<0.01	<0.01	<0.01	0.02	0.01	0.05	<0.01	<0.01	0.01	0.01	<0.01	<0.05
B3-6	17 Oct 2023	Water	ASLP TOPA	Pre Trial Batch3- Bucket 6	Normal	<0.01	<0.01	<0.01	0.02	0.08	0.23	2.7	0.02	<0.01	<0.01	<0.01	<0.05

Statistics														
Number of Results						15	15	15	15	15	15	15	15	15
Number of Detects						0	0	0	4	6	10	7	1	0
Minimum Concentration						<0.01	<0.01	<0.01	<0.01	0.01	0.01	0.01	<0.01	<0.01
Maximum Concentration						<0.01	<0.01	<0.01	0.02	0.11	0.23	2.7	0.02	<0.01



	Cids	Perfluoroalkyl Sulfonamides							
		10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL		0.01	0.05	0.05	0.05	0.05	0.05	0.05	0.05

Field ID	Date	Matrix Type	Matrix Description	Sample Comments	Sample Type								
B1-1	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch1- Bucket 1	Normal	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B1-2	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch1- Bucket 2	Normal	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B1-3	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch1- Bucket 3	Normal	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B1-4	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch1- Bucket 4	Normal	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B1-6	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch1- Bucket 6	Normal	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B2-1	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch2- Bucket 1	Normal	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B2-2	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch2- Bucket 2	Normal	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B2-3	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch2- Bucket 3	Normal	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B2-4	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch2- Bucket 4	Normal	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B2-6	17 Oct 2023	Water	ASLP TOPA	Pre Trial Batch2- Bucket 6	Normal	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B3-1	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch3- Bucket 1	Normal	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B3-2	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch3- Bucket 2	Normal	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B3-3	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch3- Bucket 3	Normal	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B3-4	16 Oct 2023	Water	ASLP TOPA	Pre Trial Batch3- Bucket 4	Normal	0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
B3-6	17 Oct 2023	Water	ASLP TOPA	Pre Trial Batch3- Bucket 6	Normal	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Statistics									
Number of Results						15	15	15	15
Number of Detects						1	0	0	0
Minimum Concentration						0.01	<0.05	<0.05	<0.05
Maximum Concentration						0.01	<0.05	<0.05	<0.05



	Inorganics				Physical		Acid Sulphate Soils - Field			Organic	TPH		
	Conductivity (1:5 aqueous extract)	Ammonium as N	Alkalinity (total) as CaCO3	Cation Exchange Capacity	Moisture Content (dried @ 103°C)	pH (1:5 aqueous extract)	pHF	pHox	Reaction Rate	Total Organic Carbon	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction
	µS/cm	mg/kg	mg/kg	meq/100g	%	-	-	-	-	%	mg/kg	mg/kg	mg/kg
EQL	10	5	50	0.5	1	0.1	0.1	0.1	0	0.1	20	20	50

Field ID	Date	Matrix Type	Matrix Description	Sample Comments	Sample Type													
B1-1	17 Oct 2023	Soil	Standard Chem	Pre Trial Batch1- Bucket 1	Normal	1,100	20	350	64	33	11	11	10.0	4.0	0.5	<20	<20	180
B1-2	17 Oct 2023	Soil	Standard Chem	Pre Trial Batch1- Bucket 2	Normal	540	40	750	61	35	11	11	9.9	4.0	1.3	<20	<20	130
B1-3	17 Oct 2023	Soil	Standard Chem	Pre Trial Batch1- Bucket 3	Normal	770	45	770	75	28	11	11	10	4.0	0.4	<20	<20	160
B2-1	17 Oct 2023	Soil	Standard Chem	Pre Trial Batch2- Bucket 1	Normal	510	44	<50	5.5	7.9	5.3	6.0	4.2	4.0	0.4	<20	<20	140
B2-2	17 Oct 2023	Soil	Standard Chem	Pre Trial Batch2- Bucket 2	Normal	430	51	<50	5.4	7.5	6.5	6.7	3.7	4.0	1.2	<20	<20	140
B2-3	17 Oct 2023	Soil	Standard Chem	Pre Trial Batch2- Bucket 3	Normal	710	28	<50	6.1	6.7	6.0	5.8	4.1	4.0	1.1	<20	<20	130
B3-1	17 Oct 2023	Soil	Standard Chem	Pre Trial Batch3- Bucket 1	Normal	870	13	340	28	20	10	8.6	7.6	4.0	<0.1	<20	33	210
B3-2	17 Oct 2023	Soil	Standard Chem	Pre Trial Batch3- Bucket 2	Normal	780	13	130	23	22	9.5	9.7	8.1	4.0	<0.1	<20	29	190
B3-3	17 Oct 2023	Soil	Standard Chem	Pre Trial Batch3- Bucket 3	Normal	690	13	240	28	21	9.4	10	8.0	4.0	0.2	<20	29	170

Statistics																		
Number of Results						9	9	9	9	9	9	9	9	9	9	9	9	9
Number of Detects						9	9	6	9	9	9	9	9	9	7	0	3	9
Minimum Concentration						430	13	<50	5.4	6.7	5.3	5.8	3.7	4	<0.1	<20	<20	130
Maximum Concentration						1,100	51	770	75	35	11	11	10	4	1.3	<20	33	210



			TRH							BTEX
	C29-C36 Fraction	C10-C36 Fraction (Sum)	C6-C10 Fraction (F1)	C6-C10 (F1 minus BTEX)	>C10-C16 Fraction (F2)	>C10-C16 Fraction (F2 minus Naphthalene)	>C16-C34 Fraction (F3)	>C34-C40 Fraction (F4)	>C10-C40 Fraction (Sum)	Naphthalene (VOC)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	50	50	20	20	50	50	100	100	100	0.5

Field ID	Date	Matrix Type	Matrix Description	Sample Comments	Sample Type										
B1-1	17 Oct 2023	Soil	Standard Chem	Pre Trial Batch1- Bucket 1	Normal	110	290	<20	<20	<50	<50	250	<100	250	<0.5
B1-2	17 Oct 2023	Soil	Standard Chem	Pre Trial Batch1- Bucket 2	Normal	78	208	<20	<20	<50	<50	180	<100	180	<0.5
B1-3	17 Oct 2023	Soil	Standard Chem	Pre Trial Batch1- Bucket 3	Normal	84	244	<20	<20	<50	<50	220	<100	220	<0.5
B2-1	17 Oct 2023	Soil	Standard Chem	Pre Trial Batch2- Bucket 1	Normal	130	270	<20	<20	<50	<50	230	100	330	<0.5
B2-2	17 Oct 2023	Soil	Standard Chem	Pre Trial Batch2- Bucket 2	Normal	100	240	<20	<20	<50	<50	200	<100	200	<0.5
B2-3	17 Oct 2023	Soil	Standard Chem	Pre Trial Batch2- Bucket 3	Normal	97	227	<20	<20	<50	<50	190	<100	190	<0.5
B3-1	17 Oct 2023	Soil	Standard Chem	Pre Trial Batch3- Bucket 1	Normal	130	373	<20	<20	61	61	280	<100	341	<0.5
B3-2	17 Oct 2023	Soil	Standard Chem	Pre Trial Batch3- Bucket 2	Normal	100	319	<20	<20	61	61	240	<100	301	<0.5
B3-3	17 Oct 2023	Soil	Standard Chem	Pre Trial Batch3- Bucket 3	Normal	99	298	<20	<20	59	59	210	<100	269	<0.5

Statistics														
Number of Results						9	9	9	9	9	9	9	9	9
Number of Detects						9	9	0	0	3	3	9	1	9
Minimum Concentration						78	208	<20	<20	<50	<50	180	100	180
Maximum Concentration						130	373	<20	<20	61	61	280	100	341



	Physical		Perfluoroalkane Carboxylic Acids											
	Moisture Content (dried @ 103°C)		Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTriDA)	Perfluorotetradecanoi c acid (PFTeDA)	
			µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
EQL	1		5	5	5	5	5	5	5	5	5	5	5	5
QLD Solid Category 1 Regulated Waste														
QLD Solid Category 2 Regulated Waste														

Field ID	Date	Matrix Type	Matrix Description	Sample Comments	Sample Type													
B1-1-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch1- Bu	Normal	22	31	84	70	8.3	<5	<5	<5	<5	<5	<5	<5	<5
B1-2-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch1- Bu	Normal	23	32	84	70	9.0	<5	<5	<5	<5	<5	<5	<5	<5
B1-3-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch1- Bu	Normal	23	35	96	77	8.2	<5	<5	<5	<5	<5	<5	<5	<5
B1-4-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch1- Bu	Normal	26	35	98	76	9.0	<5	<5	<5	<5	<5	<5	<5	<5
B1-5-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch1- Bu	Normal	24	27	81	67	7.9	<5	<5	<5	<5	<5	<5	<5	<5
B2-1-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch2- Bu	Normal	5.0	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
B2-2-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch 2 Bu	Normal	5.3	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
B2-3-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch 2 Bu	Normal	6.0	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
B2-4-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch 2 Bu	Normal	6.0	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
B2-5-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch 2 Bu	Normal	6.4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
B3-1-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch 3 Bu	Normal	14	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
B3-2-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch 3 Bu	Normal	19	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
B3-3-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch 3 Bu	Normal	19	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
B3-4-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch 3 Bu	Normal	19	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
B3-5-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch 3 Bu	Normal	16	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

Statistics														
Number of Results						15	15	15	15	15	15	15	15	15
Number of Detects						15	5	5	5	5	0	0	0	0
Minimum Concentration						5	<5	<5	<5	<5	<5	<5	<5	<5
Maximum Concentration						26	35	98	77	9	<5	<5	<5	<5

Environmental Standards
DES, 4 Feb 2019, QLD Solid Category 1 Regulated Waste
DES, 4 Feb 2019, QLD Solid Category 2 Regulated Waste



	Perfluoroalkane Sulfonic Acids							(n:2) Fluorotelomer Sulfonic Acids					
	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecane sulfonic acid (PFDS)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)
	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
EQL	5	5	5	5	5	5	5	5	10	5	5	5	5
QLD Solid Category 1 Regulated Waste													
QLD Solid Category 2 Regulated Waste													

Field ID	Date	Matrix Type	Matrix Description	Sample Comments	Sample Type													
B1-1-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch1- Bu	Normal	<5	<5	<5	<5	<5	<5	<5	<5	43	23	<5	<5	<5
B1-2-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch1- Bu	Normal	<5	<5	<5	<5	<5	<5	<5	<5	42	22	<5	<5	<5
B1-3-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch1- Bu	Normal	<5	<5	<5	<5	<5	<5	<5	<5	57	25	<5	<5	<5
B1-4-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch1- Bu	Normal	<5	<5	<5	<5	<5	<5	<5	<5	37	28	<5	<5	<5
B1-5-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch1- Bu	Normal	<5	<5	<5	<5	<5	<5	<5	<5	47	22	<5	<5	<5
B2-1-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch2- Bu	Normal	<5	<5	<5	<5	12	<5	<5	<5	14	<5	<5	<5	<5
B2-2-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch 2 Bu	Normal	<5	<5	<5	<5	11	<5	<5	<5	12	<5	<5	<5	<5
B2-3-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch 2 Bu	Normal	<5	<5	<5	<5	10	<5	<5	<5	11	<5	<5	<5	<5
B2-4-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch 2 Bu	Normal	<5	<5	<5	<5	9.9	<5	<5	<5	10	<5	<5	<5	<5
B2-5-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch 2 Bu	Normal	<5	<5	<5	<5	11	<5	<5	<5	<10	<5	<5	<5	<5
B3-1-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch 3 Bu	Normal	<5	<5	<5	<5	61	<5	<5	<5	<10	<5	<5	<5	<5
B3-2-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch 3 Bu	Normal	<5	<5	<5	<5	71	<5	<5	<5	<10	<5	<5	<5	<5
B3-3-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch 3 Bu	Normal	<5	<5	<5	<5	49	<5	<5	<5	<10	<5	<5	<5	<5
B3-4-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch 3 Bu	Normal	<5	<5	<5	<5	70	<5	<5	<5	<10	<5	<5	<5	<5
B3-5-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch 3 Bu	Normal	<5	<5	<5	<5	59	<5	<5	<5	<10	<5	<5	<5	<5

Statistics														
Number of Results						15	15	15	15	15	15	15	15	15
Number of Detects						0	0	0	0	10	0	0	0	0
Minimum Concentration						<5	<5	<5	<5	<5	<5	<5	<5	<5
Maximum Concentration						<5	<5	<5	<5	71	<5	<5	<5	<5

Environmental Standards
DES, 4 Feb 2019, QLD Solid Category 1 Regulated Waste
DES, 4 Feb 2019, QLD Solid Category 2 Regulated Waste



	Perfluoroalkyl Sulfonamides					PFAS	
	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	Sum of PFHxS and PFOS	Sum of PFAS
	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
EQL	10	5	5	10	5	5	50
QLD Solid Category 1 Regulated Waste							0
QLD Solid Category 2 Regulated Waste							0

Field ID	Date	Matrix Type	Matrix Description	Sample Comments	Sample Type							
B1-1-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch1- Bu	Normal	<10	<5	<5	<10	<5	<5	259.3
B1-2-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch1- Bu	Normal	<10	<5	<5	<10	<5	<5	259
B1-3-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch1- Bu	Normal	<10	<5	<5	<10	<5	<5	298.2
B1-4-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch1- Bu	Normal	<10	<5	<5	<10	<5	<5	283
B1-5-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch1- Bu	Normal	<10	<5	<5	<10	<5	<5	251.9
B2-1-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch2- Bu	Normal	<10	<5	<5	<10	<5	12	<50
B2-2-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch 2 Bu	Normal	<10	<5	<5	<10	<5	11	<50
B2-3-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch 2 Bu	Normal	<10	<5	<5	<10	<5	10	<50
B2-4-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch 2 Bu	Normal	<10	<5	<5	<10	<5	9.9	<50
B2-5-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch 2 Bu	Normal	<10	<5	<5	<10	<5	11	<50
B3-1-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch 3 Bu	Normal	<10	<5	<5	<10	<5	61	61
B3-2-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch 3 Bu	Normal	<10	<5	<5	<10	<5	71	71
B3-3-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch 3 Bu	Normal	<10	<5	<5	<10	<5	49	<50
B3-4-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch 3 Bu	Normal	<10	<5	<5	<10	<5	70	70
B3-5-POST	19 Oct 2023	Soil	Standard	Post Treatment Batch 3 Bu	Normal	<10	<5	<5	<10	<5	59	59

Statistics												
Number of Results						15	15	15	15	15	15	15
Number of Detects						0	0	0	0	0	10	9
Minimum Concentration						<10	<5	<5	<10	<5	<5	<50
Maximum Concentration						<10	<5	<5	<10	<5	71	298.2

Environmental Standards
DES, 4 Feb 2019, QLD Solid Category 1 Regulated Waste
DES, 4 Feb 2019, QLD Solid Category 2 Regulated Waste



	Physical	Perfluoroalkane Carboxylic Acids											
	Moisture Content (dried @ 103°C)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTriDA)	Perfluorotetradecanoi c acid (PFTeDA)	
	%	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
EQL	1	5	5	5	5	5	5	5	5	5	5	5	5
QLD Solid Category 1 Regulated Waste													
QLD Solid Category 2 Regulated Waste													

Field ID	Date	Matrix Type	Matrix Description	Sample Comments	Sample Type													
B1-1-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch1- Bu	Normal	23	26	90	51	17	<5	<5	<5	<5	<5	<5	<5	<5
B1-2-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch1- Bu	Normal	22	<5	110	72	18	5.3	<5	<5	<5	<5	<5	<5	<5
B1-3-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch1- Bu	Normal	23	<5	<5	<5	17	<5	<5	<5	<5	<5	<5	<5	<5
B1-4-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch1- Bu	Normal	25	56	150	81	20	5.4	<5	<5	<5	<5	<5	<5	<5
B1-5-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch1- Bu	Normal	24	38	110	62	15	<5	<5	<5	<5	<5	<5	<5	<5
B2-1-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch2- Bu	Normal	5.0	14	22	18	29	11	<5	<5	<5	<5	<5	<5	<5
B2-2-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch 2 Bu	Normal	6.3	<5	<5	<5	16	<5	<5	<5	<5	<5	<5	<5	<5
B2-3-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch 2 Bu	Normal	6.0	<5	15	12	23	7.7	<5	<5	<5	<5	<5	<5	<5
B2-4-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch 2 Bu	Normal	5.9	<5	7.4	17	26	7.6	<5	<5	<5	<5	<5	<5	<5
B2-5-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch 2 Bu	Normal	4.8	9.2	16	13	23	7.3	<5	<5	<5	<5	<5	<5	<5
B3-1-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch 3 Bu	Normal	18	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
B3-2-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch 3 Bu	Normal	18	<5	9.1	5.7	<5	<5	<5	<5	<5	<5	<5	<5	<5
B3-3-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch 3 Bu	Normal	19	<5	5.2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
B3-4-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch 3 Bu	Normal	16	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
B3-5-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch 3 Bu	Normal	16	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

Statistics																		
Number of Results						15	15	15	15	15	15	15	15	15	15	15	15	15
Number of Detects						15	5	10	9	10	6	0	0	0	0	0	0	0
Minimum Concentration						4.8	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Maximum Concentration						25	56	150	81	29	11	<5	<5	<5	<5	<5	<5	<5

Environmental Standards
DES, 4 Feb 2019, QLD Solid Category 1 Regulated Waste
DES, 4 Feb 2019, QLD Solid Category 2 Regulated Waste



	Perfluoroalkane Sulfonic Acids							(n:2) Fluorotelomer Sulfonic Acids					
	Perfluorobutane sulfonic acid (PFBS) µg/kg	Perfluoropentane sulfonic acid (PFPeS) µg/kg	Perfluorohexane sulfonic acid (PFHxS) µg/kg	Perfluoroheptane sulfonic acid (PFHpS) µg/kg	Perfluorooctane sulfonic acid (PFOS) µg/kg	Perfluorononanesulfonic acid (PFNS) µg/kg	Perfluorodecane sulfonic acid (PFDS) µg/kg	4:2 Fluorotelomer sulfonic acid (4:2 FTS) µg/kg	6:2 Fluorotelomer sulfonic acid (6:2 FTS) µg/kg	8:2 Fluorotelomer sulfonic acid (8:2 FTS) µg/kg	10:2 Fluorotelomer sulfonic acid (10:2 FTS) µg/kg	Perfluorooctane sulfonamide (FOSA) µg/kg	N-Methyl perfluorooctane sulfonamide (MeFOSA) µg/kg
EQL	5	5	5	5	5	5	5	5	10	5	5	5	5
QLD Solid Category 1 Regulated Waste													
QLD Solid Category 2 Regulated Waste													

Field ID	Date	Matrix Type	Matrix Description	Sample Comments	Sample Type													
B1-1-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch1- Bu	Normal	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5
B1-2-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch1- Bu	Normal	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5
B1-3-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch1- Bu	Normal	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5
B1-4-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch1- Bu	Normal	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5
B1-5-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch1- Bu	Normal	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5
B2-1-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch2- Bu	Normal	<5	<5	<5	<5	9.6	<5	<5	<5	<10	<5	<5	<5	<5
B2-2-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch 2 Bu	Normal	<5	<5	<5	<5	6.6	<5	<5	<5	<10	<5	<5	<5	<5
B2-3-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch 2 Bu	Normal	<5	<5	<5	<5	7.1	<5	<5	<5	<10	<5	<5	<5	<5
B2-4-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch 2 Bu	Normal	<5	<5	<5	<5	11	<5	<5	<5	<10	<5	<5	<5	<5
B2-5-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch 2 Bu	Normal	<5	<5	<5	<5	7.2	<5	<5	<5	<10	<5	<5	<5	<5
B3-1-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch 3 Bu	Normal	<5	<5	<5	<5	35	<5	<5	<5	<10	<5	<5	<5	<5
B3-2-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch 3 Bu	Normal	<5	<5	<5	<5	53	<5	<5	<5	<10	<5	<5	<5	<5
B3-3-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch 3 Bu	Normal	<5	<5	<5	<5	43	<5	<5	<5	<10	<5	<5	<5	<5
B3-4-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch 3 Bu	Normal	<5	<5	<5	<5	45	<5	<5	<5	<10	<5	<5	<5	<5
B3-5-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch 3 Bu	Normal	<5	<5	<5	<5	52	<5	<5	<5	<10	<5	<5	<5	<5

Statistics														
Number of Results						15	15	15	15	15	15	15	15	15
Number of Detects						0	0	0	0	10	0	0	0	0
Minimum Concentration						<5	<5	<5	<5	<5	<5	<5	<5	<5
Maximum Concentration						<5	<5	<5	<5	53	<5	<5	<5	<5

Environmental Standards
DES, 4 Feb 2019, QLD Solid Category 1 Regulated Waste
DES, 4 Feb 2019, QLD Solid Category 2 Regulated Waste



	Perfluoroalkyl Sulfonamides					PFAS	
	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	Sum of PFHxS and PFOS	Sum of PFAS
	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
EQL	10	5	5	10	5	5	50
QLD Solid Category 1 Regulated Waste							0
QLD Solid Category 2 Regulated Waste							0

Field ID	Date	Matrix Type	Matrix Description	Sample Comments	Sample Type							
B1-1-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch1- Bu	Normal	<10	<5	<5	<10	<5	<5	184
B1-2-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch1- Bu	Normal	<10	<5	<5	<10	<5	<5	205.3
B1-3-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch1- Bu	Normal	<10	<5	<5	<10	<5	<5	<50
B1-4-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch1- Bu	Normal	<10	<5	<5	<10	<5	<5	312.4
B1-5-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch1- Bu	Normal	<10	<5	<5	<10	<5	<5	225
B2-1-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch2- Bu	Normal	<10	<5	<5	<10	<5	9.6	103.6
B2-2-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch 2 Bu	Normal	<10	<5	<5	<10	<5	6.6	<50
B2-3-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch 2 Bu	Normal	<10	<5	<5	<10	<5	7.1	64.8
B2-4-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch 2 Bu	Normal	<10	<5	<5	<10	<5	11	69
B2-5-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch 2 Bu	Normal	<10	<5	<5	<10	<5	7.2	75.7
B3-1-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch 3 Bu	Normal	<10	<5	<5	<10	<5	35	<50
B3-2-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch 3 Bu	Normal	<10	<5	<5	<10	<5	53	67.8
B3-3-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch 3 Bu	Normal	<10	<5	<5	<10	<5	43	<50
B3-4-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch 3 Bu	Normal	<10	<5	<5	<10	<5	45	<50
B3-5-POST	19 Oct 2023	Soil	TOPA	Post Treatment Batch 3 Bu	Normal	<10	<5	<5	<10	<5	52	52

Statistics							
Number of Results						15	15
Number of Detects						0	0
Minimum Concentration						<10	<5
Maximum Concentration						<10	<5

Environmental Standards
DES, 4 Feb 2019, QLD Solid Category 1 Regulated Waste
DES, 4 Feb 2019, QLD Solid Category 2 Regulated Waste



	Leaching Preparation		Perfluoroalkane Carboxylic Acids										
	pH of Leaching Fluid	pH (Final)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTriDA)	Perfluorotetradecanoic acid (PFTeDA)
	-	-	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.1	0.1	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Field ID	Date	Matrix Type	Matrix Description	Sample Comments	Sample Type													
B1-1-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch1- Bu	Normal	7.0	11	0.36	0.37	0.24	0.12	0.06	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
B1-2-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch1- Bu	Normal	7.0	11	0.41	0.44	0.26	0.12	0.06	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
B1-3-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch1- Bu	Normal	7.0	11	0.50	0.50	0.29	0.13	0.07	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
B1-4-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch1- Bu	Normal	7.0	11	0.49	0.44	0.27	0.13	0.07	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
B1-5-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch1- Bu	Normal	7.0	11	0.41	0.33	0.18	0.09	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
B2-1-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch2- Bu	Normal	7.0	7.9	<0.05	0.08	0.09	0.15	0.07	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
B2-2-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch 2 Bu	Normal	7.0	7.9	<0.05	0.05	0.05	0.08	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
B2-3-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch 2 Bu	Normal	7.0	7.7	<0.05	<0.01	0.04	0.08	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
B2-4-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch 2 Bu	Normal	7.0	7.7	<0.05	0.07	0.08	0.15	0.07	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
B2-5-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch 2 Bu	Normal	7.0	7.3	<0.05	0.05	0.06	0.10	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
B3-1-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch 3 Bu	Normal	7.0	6.8	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
B3-2-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch 3 Bu	Normal	7.0	8.9	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
B3-3-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch 3 Bu	Normal	7.0	8.7	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
B3-4-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch 3 Bu	Normal	7.0	6.9	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	0.04	0.01	<0.01
B3-5-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch 3 Bu	Normal	7.0	9.5	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Statistics														
Number of Results						15	15	15	15	15	15	15	15	15
Number of Detects						15	15	5	9	10	10	10	2	0
Minimum Concentration						7	6.8	<0.05	<0.01	<0.01	<0.01	<0.01	0.01	<0.01
Maximum Concentration						7	11	0.5	0.5	0.29	0.15	0.07	0.01	<0.01



EQ1	Perfluoroalkane Sulfonic Acids								(n:2) Fluorotelomer Sulfonic Acids				Perfluorooctane sulfonamide (FOSA)
	Perfluoropropanesulfonic acid (PFPrS)	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecane sulfonic acid (PFDS)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQ1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.05

Field ID	Date	Matrix Type	Matrix Description	Sample Comments	Sample Type												
B1-1-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch1- Bu	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01
B1-2-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch1- Bu	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01
B1-3-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch1- Bu	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	0.06	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01
B1-4-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch1- Bu	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01
B1-5-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch1- Bu	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01
B2-1-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch2- Bu	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01
B2-2-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch 2 Bu	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01
B2-3-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch 2 Bu	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01
B2-4-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch 2 Bu	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01
B2-5-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch 2 Bu	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01
B3-1-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch 3 Bu	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01
B3-2-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch 3 Bu	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01
B3-3-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch 3 Bu	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01
B3-4-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch 3 Bu	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.02	0.03	<0.01	<0.05	0.01	0.05
B3-5-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch 3 Bu	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01

Statistics														
Number of Results						15	15	15	15	15	15	15	15	15
Number of Detects						0	0	0	0	0	2	1	1	0
Minimum Concentration						<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.05
Maximum Concentration						<0.01	<0.01	<0.01	<0.01	<0.01	0.06	0.02	0.03	<0.05



	Perfluoroalkyl Sulfonamides						PFAS	
	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	Sum of PFHxS and PFOS	Sum of PFAS
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.05	0.05	0.05	0.05	0.05	0.05	0.01	0.1

Field ID	Date	Matrix Type	Matrix Description	Sample Comments	Sample Type								
B1-1-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch1- Bu	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	1.15
B1-2-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch1- Bu	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	1.29
B1-3-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch1- Bu	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	1.55
B1-4-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch1- Bu	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	1.4
B1-5-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch1- Bu	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	1.06
B2-1-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch2- Bu	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.4
B2-2-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch 2 Bu	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.22
B2-3-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch 2 Bu	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.15
B2-4-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch 2 Bu	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.38
B2-5-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch 2 Bu	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.25
B3-1-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch 3 Bu	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.1
B3-2-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch 3 Bu	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.1
B3-3-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch 3 Bu	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.1
B3-4-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch 3 Bu	Normal	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	0.01	0.26
B3-5-POST	19 Oct 2023	Water	ASLP TOPA	Post Treatment Batch 3 Bu	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.1

Statistics								
Number of Results						15	15	15
Number of Detects						0	0	0
Minimum Concentration						<0.05	<0.05	<0.05
Maximum Concentration						<0.05	<0.05	<0.05

Statistics																						
Number of Results	54	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	
Number of Detects	54	60	60	4	6	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
Minimum Concentration	2.8	3.1	3.3	<0.05	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Maximum Concentration	2.8	5.6	5.4	0.64	0.29	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	

[illegible][illegible][illegible]

	PFAS TOPA																		
	Perfluorobutanoic acid (TOPA)	Perfluoropentanoic acid (TOPA)	Perfluorohexanoic acid (TOPA)	Perfluoroheptanoic acid (TOPA)	Perfluorooctanoic acid (PFOA) TOPA	Perfluorononanoic acid (TOPA)	Perfluorodecanoic acid (TOPA)	Perfluoroundecanoic acid (TOPA)	Perfluorododecanoic acid (TOPA)	Perfluorotridecanoic acid (TOPA)	Perfluorotetradecanoic acid (TOPA)	4:2 FTS (TOPA)	6:2 FTS (TOPA)	8:2 FTS (TOPA)	10:2 FTS (TOPA)	Perfluorooctane sulfonamide (TOPA)	N-Methyl perfluorooctane sulfonamide (TOPA)	N-Ethyl perfluorooctane sulfonamide (TOPA)	N-Methyl perfluorooctane sulfonamidoethanol (TOPA)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005

Sample Code	Field ID	Date	Sample Type																	
B23-Ap0010339	S1	05 Apr 2023	Normal	0.013	0.019	0.057	<0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B23-Ap0010340	S2	05 Apr 2023	Normal	0.023	0.03	0.071	0.014	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B23-Ap0010341	S3	05 Apr 2023	Normal	<0.005	<0.005	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B23-Ap0010342	S4	05 Apr 2023	Normal	<0.005	0.027	0.12	0.01	0.014	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B23-Ap0010343	S5	05 Apr 2023	Normal	<0.005	0.018	0.04	<0.005	0.008	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B23-Ap0010344	S6	05 Apr 2023	Normal	0.14	0.33	0.41	0.057	0.029	<0.005	0.005	0.006	0.009	<0.005	<0.005	<0.005	0.008	0.015	<0.005	<0.005	<0.005
B23-Ap0010345	S7	05 Apr 2023	Normal	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B23-Ap0010346	S8	05 Apr 2023	Normal	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B23-Ap0010347	S9	05 Apr 2023	Normal	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B23-Ap0010348	S10	05 Apr 2023	Normal	<0.005	<0.005	0.047	<0.005	0.011	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B23-Ap0010349	S11	05 Apr 2023	Normal	0.043	0.042	0.1	0.011	0.019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	0.008	<0.005	<0.005	<0.005	<0.005
B23-Ap0010350	S12	05 Apr 2023	Normal	0.071	0.091	0.41	0.032	0.063	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B23-Ap0010351	QC1	05 Apr 2023	Field_D	0.094	0.13	0.57	0.069	0.13	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B23-Ap0010352	S13	05 Apr 2023	Normal	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B23-Ap0010353	S14	05 Apr 2023	Normal	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B23-Ap0010354	S15	05 Apr 2023	Normal	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B23-Ap0010355	S16	05 Apr 2023	Normal	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B23-Ap0010356	S17	05 Apr 2023	Normal	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B23-Ap0010357	S18	05 Apr 2023	Normal	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B23-Ap0010358	S19	05 Apr 2023	Normal	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B23-Ap0010359	S20	05 Apr 2023	Normal	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B23-Ap0010360	QC2	05 Apr 2023	Field_D	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Statistics																				
Number of Results	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
Minimum Concentration	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Maximum Concentration	0.14	0.33	0.57	0.069	0.13	<0.005	0.005	0.006	0.009	<0.005	<0.005	<0.005	0.006	0.008	0.015	<0.005	<0.005	<0.005	<0.005	<0.005
Average Concentration *	0.021	0.034	0.086	0.012	0.016	0.005	0.005	0.005	0.0052	0.005	0.005	0.005	0.005	0.0053	0.0055	0.005	0.005	0.005	0.005	0.005
Geometric Average *	0.0093	0.012	0.019	0.0077	0.0086	0.005	0.005	0.005	0.0051	0.005	0.005	0.005	0.005	0.0052	0.0053	0.005	0.005	0.005	0.005	0.005
Median Concentration *	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
95% UCL (Student's-t) *	0.0342	0.0613	0.145	0.0188	0.0266	0.005	0.005	0.00512	0.00549	0.005	0.005	0.005	0.00512	0.0056	0.00624	0.005	0.005	0.005	0.005	0.005
% of Detects	27	36	50	27	41	0	5	5	5	0	0	0	5	9	5	0	0	0	0	0

* A Non Detect Multiplier of 1 has been applied.

	N-Ethyl perfluorooctane sulfonamidoethanol (TOPA)	N-Methyl perfluorooctane sulfonamidoacetic acid (TOPA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (TOPA)	Perfluoropropanesulf onic acid (TOPA)	Perfluorobutanesulfo nic acid (TOPA)	Perfluoropentanesulf onic acid (TOPA)	Perfluorohexane sulfonic acid (TOPA)	Perfluoroheptane sulfonic acid (TOPA)	Perfluorooctane sulfonic acid (PFOS) TOPA	Perfluorononanesulfo nic acid (TOPA)	Perfluorodecanesulfo nic acid (TOPA)	Sum of TOP C4 - C14 as Fluorine	Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfo	Sum of PFHxS and PFOS (TOPA)	Sum of PFAS (PFOS + PFOA) TOPA	Sum of PFASs (n=30) TOPA	Sum of enHealth PFAS (PFHxS + PFOS + PFOA) TOPA	Sum of WA DWER PFAS (n=10) TOPA
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005			0.005	0.005	0.005	0.005	0.005

Sample Code	Field ID	Date	Sample Type																		
B23-Ap0010339	S1	05 Apr 2023	Normal	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	0.062	<0.005	0.2	<0.005	<0.005	0.23	0.095	0.26	0.21	0.36	0.27	0.36
B23-Ap0010340	S2	05 Apr 2023	Normal	<0.005	<0.005	<0.005	0.016	0.015	0.009	0.15	0.01	0.31	<0.005	<0.005	0.5	0.148	0.46	0.32	0.66	0.47	0.62
B23-Ap0010341	S3	05 Apr 2023	Normal	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.037	<0.005	0.43	<0.005	<0.005	0.308	0.01	0.47	0.43	0.48	0.47	0.48
B23-Ap0010342	S4	05 Apr 2023	Normal	<0.005	<0.005	<0.005	0.051	0.048	0.03	0.52	0.035	0.54	<0.005	<0.005	1.124	0.171	1.1	0.55	1.4	1.1	1.3
B23-Ap0010343	S5	05 Apr 2023	Normal	<0.005	<0.005	<0.005	0.007	0.011	0.009	0.2	0.014	2.3	<0.005	<0.005	1.713	0.066	2.5	2.3	2.6	2.5	2.6
B23-Ap0010344	S6	05 Apr 2023	Normal	<0.005	0.007	0.008	0.079	0.097	0.11	1.2	0.034	0.62	0.015	0.016	2.372	0.986	1.8	0.65	3.2	1.8	2.9
B23-Ap0010345	S7	05 Apr 2023	Normal	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.02	<0.005	0.019	<0.005	<0.005	0.025	<0.005	0.039	0.019	0.039	0.039	0.039
B23-Ap0010346	S8	05 Apr 2023	Normal	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.013	<0.005	0.018	<0.005	<0.005	0.02	<0.005	0.031	0.018	0.031	0.031	0.031
B23-Ap0010347	S9	05 Apr 2023	Normal	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B23-Ap0010348	S10	05 Apr 2023	Normal	<0.005	<0.005	<0.005	0.02	0.028	0.022	0.28	0.015	0.098	<0.005	<0.005	0.042	0.058	0.38	0.11	0.52	0.39	0.46
B23-Ap0010349	S11	05 Apr 2023	Normal	<0.005	<0.005	<0.005	0.014	0.019	0.013	0.22	0.03	1.4	<0.005	<0.005	1.295	0.215	1.6	1.4	1.9	1.6	1.9
B23-Ap0010350	S12	05 Apr 2023	Normal	<0.005	<0.005	<0.005	0.13	0.14	0.1	2	0.13	0.83	<0.005	<0.005	3.128	0.667	2.8	0.89	4	2.9	3.6
B23-Ap0010351	QC1	05 Apr 2023	Field_D	<0.005	<0.005	<0.005	0.12	0.23	0.16	1.7	0.078	0.89	<0.005	<0.005	3.199	0.993	2.6	1	4.2	2.7	3.8
B23-Ap0010352	S13	05 Apr 2023	Normal	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B23-Ap0010353	S14	05 Apr 2023	Normal	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	<0.005	<0.005	0.01	0.005	0.01	0.01	0.015	0.01	0.015
B23-Ap0010354	S15	05 Apr 2023	Normal	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.005	0.005	0.005	0.005	0.005
B23-Ap0010355	S16	05 Apr 2023	Normal	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B23-Ap0010356	S17	05 Apr 2023	Normal	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B23-Ap0010357	S18	05 Apr 2023	Normal	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B23-Ap0010358	S19	05 Apr 2023	Normal	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	<0.005	0.005	<0.005	<0.005	0.009	<0.005	0.015	0.005	0.015	0.015	0.015
B23-Ap0010359	S20	05 Apr 2023	Normal	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B23-Ap0010360	QC2	05 Apr 2023	Field_D	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Statistics																				
Number of Results	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
Minimum Concentration	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.005	0.005	0.005	0.005	0.005	0.005
Maximum Concentration	<0.005	0.007	0.008	0.13	0.23	0.16	2	0.13	2.3	0.015	0.016	3.199	0.993	2.8	2.3	4.2	2.9	3.8		
Average Concentration *	0.005	0.0051	0.0051	0.023	0.03	0.024	0.29	0.019	0.35	0.0055	0.0055	0.64	0.16	0.64	0.36	0.88	0.65	0.83		
Geometric Average *	0.005	0.0051	0.0051	0.01	0.011	0.0099	0.038	0.0097	0.049	0.0053	0.0053	0.06	0.024	0.073	0.05	0.084	0.073	0.082		
Median Concentration *	0.005	0.005	0.005	0.005	0.005	0.005	0.0165	0.005	0.0185	0.005	0.005	0.0225	0.005	0.035	0.0185	0.035	0.035	0.035		
95% UCL (Student's-t) *	0.005	0.00525	0.00537	0.0368	0.0506	0.0392	0.504	0.03	0.563	0.00624	0.00636	1.021	0.27	0.994	0.577	1.391	1.012	1.291		
% of Detects	0	5	5	36	41	36	59	36	68	5	5	64	50	68	68	68	68	68		

* A Non Detect Multiplier of 1 has been applied.

	TRH - (Silica Gel Cleanup)				BTEX												
	>C10- C16 Fraction (SG)	>C16- C34 Fraction (SG)	>C34- C40 Fraction (SG)	>C10- C40 Fraction (SG)	Naphthalene (VOC)	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(b+)fluoranthene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	50	100	100	100	0.5	0.1	0.1	0.1	0.2	0.1	0.3	0.5	0.5	0.5	0.5	0.5	0.5

Sample Code	Field ID	Date	Sample Type																
B23-Ap0010311	S13	05 Apr 2023	Normal	<50	<100	<100	<100	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5
B23-Ap0010312	S15	05 Apr 2023	Normal	<50	<100	<100	<100	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5
B23-Ap0010313	S17	05 Apr 2023	Normal	<50	<100	<100	<100	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5
B23-Ap0010314	S18	05 Apr 2023	Normal	<50	<100	<100	<100	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5
B23-Ap0010315	S20	05 Apr 2023	Normal	<50	<100	<100	<100	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5
B23-Ap0010316	QC2	05 Apr 2023	Field_D	<50	<100	<100	<100	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5
B23-Ap0010361	S13	05 Apr 2023	Normal	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
B23-Ap0010362	S15	05 Apr 2023	Normal	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
B23-Ap0010363	S17	05 Apr 2023	Normal	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
B23-Ap0010365	S20	05 Apr 2023	Normal	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
B23-Ap0010513	QC2	05 Apr 2023	Field_D	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

Statistics																			
Number of Results	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Minimum Concentration	<50	<100	<100	<100	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Maximum Concentration	<50	<100	<100	<100	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Average Concentration *	50	100	100	100	0.5	0.1	0.1	0.1	0.2	0.1	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Geometric Average *	50	100	100	100	0.5	0.1	0.1	0.1	0.2	0.1	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Median Concentration *	50	100	100	100	0.5	0.1	0.1	0.1	0.2	0.1	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
95% UCL (Student's-t) *	50	100	100	100	0.5	0.1	0.1	0.1	0.2	0.1	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
% of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

* A Non Detect Multiplier of 1 has been applied.

	PAH														TPH		
	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	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Zero)	PAHs (Sum of total)	C10-C14 Fraction (SG)	C10-C36 Fraction (Sum)(SG)	C15-C28 Fraction (SG)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	20	100	50

Sample Code	Field ID	Date	Sample Type																	
B23-Ap0010311	S13	05 Apr 2023	Normal	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<20	<50	<50
B23-Ap0010312	S15	05 Apr 2023	Normal	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<20	<50	<50
B23-Ap0010313	S17	05 Apr 2023	Normal	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<20	<50	<50
B23-Ap0010314	S18	05 Apr 2023	Normal	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<20	<50	<50
B23-Ap0010315	S20	05 Apr 2023	Normal	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<20	<50	<50
B23-Ap0010316	QC2	05 Apr 2023	Field_D	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<20	<50	<50
B23-Ap0010361	S13	05 Apr 2023	Normal	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
B23-Ap0010362	S15	05 Apr 2023	Normal	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
B23-Ap0010363	S17	05 Apr 2023	Normal	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
B23-Ap0010365	S20	05 Apr 2023	Normal	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
B23-Ap0010513	QC2	05 Apr 2023	Field_D	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

Statistics																			
Number of Results	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Minimum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<20	<50	<50
Maximum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.2	<0.5	<0.5	<20	<50	<50
Average Concentration *	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	1.2	0.5	0.5	20	50	50
Geometric Average *	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	1.2	0.5	0.5	20	50	50
Median Concentration *	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	1.2	0.5	0.5	20	50	50
95% UCL (Student's-t) *	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	1.2	0.5	0.5	20	50	50
% of Detects	0	0	0	0	0	0	0	0	0	0	0	0	100	100	0	0	0	0	0

* A Non Detect Multiplier of 1 has been applied.

	C29-C36 Fraction (SG)
	mg/kg
EQL	50

Sample Code	Field ID	Date	Sample Type	
B23-Ap0010311	S13	05 Apr 2023	Normal	<50
B23-Ap0010312	S15	05 Apr 2023	Normal	<50
B23-Ap0010313	S17	05 Apr 2023	Normal	<50
B23-Ap0010314	S18	05 Apr 2023	Normal	<50
B23-Ap0010315	S20	05 Apr 2023	Normal	<50
B23-Ap0010316	QC2	05 Apr 2023	Field_D	<50
B23-Ap0010361	S13	05 Apr 2023	Normal	NT
B23-Ap0010362	S15	05 Apr 2023	Normal	NT
B23-Ap0010363	S17	05 Apr 2023	Normal	NT
B23-Ap0010365	S20	05 Apr 2023	Normal	NT
B23-Ap0010513	QC2	05 Apr 2023	Field_D	NT

Statistics	
Number of Results	6
Minimum Concentration	<50
Maximum Concentration	<50
Average Concentration *	50
Geometric Average *	50
Median Concentration *	50
95% UCL (Student's-t) *	50
% of Detects	0

* A Non Detect Multiplier of 1 has been applied.

Appendix C – Analytical Results

ADE Consulting Group QLD
10/53 Metroplex Ave
Murarrie
QLD 4172



NATA Accredited
Accreditation Number 1261
Site Number 20794

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: **Matthew Toole**

Report **1026894-S**
Project name **A103021.1540.00**
Project ID **A103021.1540.00**
Received Date **Sep 19, 2023**

Client Sample ID			S001	S005	S006	S008
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Se0039313	B23- Se0039314	B23- Se0039315	B23- Se0039316
Date Sampled			Sep 15, 2023	Sep 15, 2023	Sep 15, 2023	Sep 15, 2023
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	19	27	26	25
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	49	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTeDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	50	57	70	75
13C5-PFPeA (surr.)	1	%	49	64	79	86
13C5-PFHxA (surr.)	1	%	60	57	72	70
13C4-PFHpA (surr.)	1	%	52	63	73	79
13C8-PFOA (surr.)	1	%	49	64	71	78
13C5-PFNA (surr.)	1	%	71	65	87	79
13C6-PFDA (surr.)	1	%	66	62	74	84
13C2-PFUnDA (surr.)	1	%	54	61	78	94
13C2-PFDoDA (surr.)	1	%	53	64	83	97
13C2-PFTeDA (surr.)	1	%	74	75	87	114
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	S001 Soil B23- Se0039313 Sep 15, 2023	S005 Soil B23- Se0039314 Sep 15, 2023	S006 Soil B23- Se0039315 Sep 15, 2023	S008 Soil B23- Se0039316 Sep 15, 2023
Perfluoroalkyl sulfonamido substances						
13C8-FOSA (surr.)	1	%	70	59	67	73
D3-N-MeFOSA (surr.)	1	%	84	67	74	75
D5-N-EtFOSA (surr.)	1	%	73	60	71	74
D7-N-MeFOSE (surr.)	1	%	92	43	53	35
D9-N-EtFOSE (surr.)	1	%	61	51	57	53
D5-N-EtFOSAA (surr.)	1	%	94	76	102	131
D3-N-MeFOSAA (surr.)	1	%	79	80	109	128
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	51	63	72	72
18O2-PFHxS (surr.)	1	%	56	72	86	85
13C8-PFOS (surr.)	1	%	64	75	85	81
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	48	62	66	79
13C2-6:2 FTSA (surr.)	1	%	83	64	85	90
13C2-8:2 FTSA (surr.)	1	%	82	88	130	133
13C2-10:2 FTSA (surr.)	1	%	100	99	120	INT
PFASs Summations						
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
Sum of WA DWER PFAS (n=10)*	10	ug/kg	49	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

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
% Moisture	Brisbane	Sep 18, 2023	14 Days
- Method: LTM-GEN-7080 Moisture			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Brisbane	Sep 19, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Brisbane	Sep 19, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Brisbane	Sep 19, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Brisbane	Sep 19, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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

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

Auckland	Christchurch	Tauranga
35 O'Rourke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

Company Name: ADE Consulting Group QLD
Address: 10/53 Metroplex Ave
Murarrie
QLD 4172
Project Name: A103021.1540.00
Project ID: A103021.1540.00

Order No.:
Report #: 1026894
Phone: 1300 796 922
Fax:

Received: Sep 19, 2023 8:46 AM
Due: Sep 20, 2023
Priority: 1 Day
Contact Name: Matthew Toole

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						HOLD	Moisture Set	Eurofins Suite B1	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X	X
External Laboratory										
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID					
1	W001	Sep 15, 2023		Water	B23-Se0039303			X		X
2	W002	Sep 15, 2023		Water	B23-Se0039304			X		X
3	W003	Sep 15, 2023		Water	B23-Se0039305			X		X
4	W004	Sep 15, 2023		Water	B23-Se0039306			X		X
5	W005	Sep 15, 2023		Water	B23-Se0039307			X		X
6	W006	Sep 15, 2023		Water	B23-Se0039308			X		X
7	W007	Sep 15, 2023		Water	B23-Se0039309			X		X
8	W008	Sep 15, 2023		Water	B23-Se0039310			X		X
9	W009	Sep 15, 2023		Water	B23-Se0039311			X		X
10	W010	Sep 15, 2023		Water	B23-Se0039312			X		X
11	S001	Sep 15, 2023		Soil	B23-Se0039313		X			X
12	S005	Sep 15, 2023		Soil	B23-Se0039314		X			X

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

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Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						HOLD	Moisture Set	Eurofins Suite B1	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X	X
13	S006	Sep 15, 2023		Soil	B23-Se0039315		X			X
14	S008	Sep 15, 2023		Soil	B23-Se0039316		X			X
15	S002	Sep 15, 2023		Soil	B23-Se0039317	X				
16	S003	Sep 15, 2023		Soil	B23-Se0039318	X				
17	S004	Sep 15, 2023		Soil	B23-Se0039319	X				
18	S007	Sep 15, 2023		Soil	B23-Se0039320	X				
19	S009	Sep 15, 2023		Soil	B23-Se0039321	X				
20	S010	Sep 15, 2023		Soil	B23-Se0039322	X				
21	TRIP BLANK	Sep 15, 2023		Trip Blank (liquid)	B23-Se0040156				X	
Test Counts						6	4	10	1	14

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram	mg/L: milligrams per litre	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 (<i>bis</i> -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. SVOCs recoveries 20 – 150%

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

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSA's)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	90			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	88			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	101			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	109			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	102			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	92			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	95			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	107			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	96			50-150	Pass	
Perfluorotridecanoic acid (PFTTrDA)	%	94			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	94			50-150	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery									
Perfluoroalkyl sulfonamido substances									
Perfluorooctane sulfonamide (FOSA)			%	100			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)			%	101			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)			%	104			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)			%	110			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)			%	84			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)			%	92			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)			%	99			50-150	Pass	
LCS - % Recovery									
Perfluoroalkyl sulfonic acids (PFSA's)									
Perfluorobutanesulfonic acid (PFBS)			%	87			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)			%	116			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)			%	77			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)			%	83			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)			%	101			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)			%	109			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)			%	113			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)			%	96			50-150	Pass	
LCS - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)									
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)			%	88			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)			%	85			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)			%	92			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)			%	98			50-150	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)									
				Result 1					
Perfluorobutanoic acid (PFBA)	B23-Se0039314	CP	%	89			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	B23-Se0039314	CP	%	87			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	B23-Se0039314	CP	%	94			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	B23-Se0039314	CP	%	101			50-150	Pass	
Perfluorooctanoic acid (PFOA)	B23-Se0039314	CP	%	101			50-150	Pass	
Perfluorononanoic acid (PFNA)	B23-Se0039314	CP	%	83			50-150	Pass	
Perfluorodecanoic acid (PFDA)	B23-Se0039314	CP	%	84			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	B23-Se0039314	CP	%	101			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	B23-Se0039314	CP	%	98			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	B23-Se0039314	CP	%	90			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	B23-Se0039314	CP	%	101			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances									
				Result 1					
Perfluorooctane sulfonamide (FOSA)	B23-Se0039314	CP	%	93			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Se0039314	CP	%	98			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Se0039314	CP	%	101			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Se0039314	CP	%	111			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Se0039314	CP	%	83			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Se0039314	CP	%	88			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Se0039314	CP	%	91			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSA's)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	B23-Se0039314	CP	%	77			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	B23-Se0039314	CP	%	107			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	B23-Se0039314	CP	%	69			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	B23-Se0039314	CP	%	87			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	B23-Se0039314	CP	%	86			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	B23-Se0039314	CP	%	93			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	B23-Se0039314	CP	%	101			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	B23-Se0039314	CP	%	74			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Se0039314	CP	%	75			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Se0039314	CP	%	84			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Se0039314	CP	%	83			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Se0039314	CP	%	78			50-150	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	B23-Se0039313	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	B23-Se0039313	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	B23-Se0039313	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	B23-Se0039313	CP	ug/kg	49	46	6.2	30%	Pass	
Perfluorooctanoic acid (PFOA)	B23-Se0039313	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	B23-Se0039313	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	B23-Se0039313	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	B23-Se0039313	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	B23-Se0039313	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	B23-Se0039313	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	B23-Se0039313	CP	ug/kg	< 5	< 5	<1	30%	Pass	

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	B23-Se0039313	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Se0039313	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Se0039313	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Se0039313	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Se0039313	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Se0039313	CP	ug/kg	< 10	< 10	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Se0039313	CP	ug/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	B23-Se0039313	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	B23-Se0039313	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	B23-Se0039313	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	B23-Se0039313	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	B23-Se0039313	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	B23-Se0039313	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	B23-Se0039313	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	B23-Se0039313	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Se0039313	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Se0039313	CP	ug/kg	< 10	< 10	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Se0039313	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Se0039313	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B23-Se0039314	CP	%	27	22	19	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.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised by:

Paige Howarth	Analytical Services Manager
Jonathon Angell	Senior Analyst-Sample Properties
Sarah McCallion	Senior Analyst-PFAS



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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Murarrie
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Accreditation Number 1261
Site Number 20794

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: **Matthew Toole**

Report **1026894-W**
Project name [A103021.1540.00](#)
Project ID [A103021.1540.00](#)
Received Date Sep 19, 2023

Client Sample ID			W001	G01W002	G01W003	G01W004
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			B23- Se0039303	B23- Se0039304	B23- Se0039305	B23- Se0039306
Date Sampled			Sep 15, 2023	Sep 15, 2023	Sep 15, 2023	Sep 15, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	0.02	mg/L	8.9	< 20	< 20	< 20
TRH C10-C14	0.05	mg/L	28	G07N/A	G07N/A	G07N/A
TRH C15-C28	0.1	mg/L	28	G07N/A	G07N/A	G07N/A
TRH C29-C36	0.1	mg/L	2.8	G07N/A	G07N/A	G07N/A
TRH C10-C36 (Total)	0.1	mg/L	58.8	G07< 0	G07< 0	G07< 0
BTEX						
Comments			R16			
Benzene	0.001	mg/L	< 0.1	< 1	< 1	< 1
Toluene	0.001	mg/L	< 0.1	< 1	< 1	< 1
Ethylbenzene	0.001	mg/L	< 0.1	< 1	< 1	< 1
m&p-Xylenes	0.002	mg/L	< 0.2	< 2	< 2	< 2
o-Xylene	0.001	mg/L	< 0.1	< 1	< 1	< 1
Xylenes - Total*	0.003	mg/L	< 0.3	< 3	< 3	< 3
4-Bromofluorobenzene (surr.)	1	%	98	92	84	88
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.01	mg/L	< 0.1	< 1	< 1	< 1
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	27	G07_	G07_	G07_
TRH C6-C10	0.02	mg/L	9.7	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	9.7	< 20	< 20	< 20
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	0.05	mg/L	27	G07N/A	G07N/A	G07N/A
TRH >C16-C34	0.1	mg/L	23	G07N/A	G07N/A	G07N/A
TRH >C34-C40	0.1	mg/L	2.2	G07N/A	G07N/A	G07N/A
TRH >C10-C40 (total)*	0.1	mg/L	52.2	G07_	G07_	G07_
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	100	< 0.5	2100	< 0.5
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	210	23	4200	0.65
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	170	58	2200	1.7
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	79	18	600	< 0.1
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	44	48	130	0.88
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	25	2.0	6.6	< 0.1
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	3.6	0.10	2.5	< 0.1
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	0.21	< 0.1	1.5	< 0.1
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	3.3	0.24	0.70	< 0.1

Client Sample ID			W001	G01W002	G01W003	G01W004
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			B23- Se0039303	B23- Se0039304	B23- Se0039305	B23- Se0039306
Date Sampled			Sep 15, 2023	Sep 15, 2023	Sep 15, 2023	Sep 15, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorotridecanoic acid (PFTrDA) ^{N15}	0.01	ug/L	0.26	< 0.1	0.26	< 0.1
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.1	< 0.1	0.13	< 0.1
13C4-PFBA (surr.)	1	%	94	21	93	88
13C5-PFPeA (surr.)	1	%	74	^{Q09} 25	80	69
13C5-PFHxA (surr.)	1	%	105	86	149	52
13C4-PFHpA (surr.)	1	%	90	85	106	114
13C8-PFOA (surr.)	1	%	72	137	78	103
13C5-PFNA (surr.)	1	%	150	132	54	70
13C6-PFDA (surr.)	1	%	101	57	101	111
13C2-PFUnDA (surr.)	1	%	119	57	145	55
13C2-PFDoDA (surr.)	1	%	132	72	116	106
13C2-PFTeDA (surr.)	1	%	115	86	115	121
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
13C8-FOSA (surr.)	1	%	109	82	113	131
D3-N-MeFOSA (surr.)	1	%	100	67	60	51
D5-N-EtFOSA (surr.)	1	%	98	55	64	58
D7-N-MeFOSE (surr.)	1	%	116	92	56	76
D9-N-EtFOSE (surr.)	1	%	104	121	52	54
D5-N-EtFOSAA (surr.)	1	%	112	90	153	12
D3-N-MeFOSAA (surr.)	1	%	85	61	111	92
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.1	1.5	< 0.1	< 0.1
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.1	< 0.1	< 0.1	< 0.1
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	9.2	< 0.1	< 0.1	< 0.1
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.1	2.9	< 0.1	< 0.1
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.1	^{N09} 20	< 0.1	< 0.1
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.1	^{N09} 5.4	< 0.1	< 0.1
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	^{N09} < 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.1	^{N09} 0.80	< 0.1	< 0.1
13C3-PFBS (surr.)	1	%	125	130	59	39
18O2-PFHxS (surr.)	1	%	88	127	74	72
13C8-PFOS (surr.)	1	%	146	136	87	61

Client Sample ID			W001	G01W002	G01W003	G01W004
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			B23- Se0039303	B23- Se0039304	B23- Se0039305	B23- Se0039306
Date Sampled			Sep 15, 2023	Sep 15, 2023	Sep 15, 2023	Sep 15, 2023
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.1	0.94	15	< 0.1
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	490	440	1400	11
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	79	59	370	2.2
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	36	3.1	19	0.37
13C2-4:2 FTSA (surr.)	1	%	60	62	84	133
13C2-6:2 FTSA (surr.)	1	%	81	146	132	122
13C2-8:2 FTSA (surr.)	1	%	74	66	145	116
13C2-10:2 FTSA (surr.)	1	%	82	113	122	58
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.1	20	< 0.1	< 0.1
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	44	48	130	0.88
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	44	68	130	0.88
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	1172	667.5	11000	16.43
Sum of PFASs (n=30)*	0.1	ug/L	1249.57	682.98	11045.69	16.8

Client Sample ID			G01W005	G01W006	G01W007	G01W008
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			B23- Se0039307	B23- Se0039308	B23- Se0039309	B23- Se0039310
Date Sampled			Sep 15, 2023	Sep 15, 2023	Sep 15, 2023	Sep 15, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	0.02	mg/L	< 20	< 20	< 2	< 20
TRH C10-C14	0.05	mg/L	G07N/A	G07N/A	9.5	G07N/A
TRH C15-C28	0.1	mg/L	G07N/A	G07N/A	2.7	G07N/A
TRH C29-C36	0.1	mg/L	G07N/A	G07N/A	< 1	G07N/A
TRH C10-C36 (Total)	0.1	mg/L	G07< 0	G07< 0	12.2	G07< 0
BTEX						
Benzene	0.001	mg/L	< 1	< 1	< 0.1	< 1
Toluene	0.001	mg/L	< 1	< 1	< 0.1	< 1
Ethylbenzene	0.001	mg/L	< 1	< 1	< 0.1	< 1
m&p-Xylenes	0.002	mg/L	< 2	< 2	< 0.2	< 2
o-Xylene	0.001	mg/L	< 1	< 1	< 0.1	< 1
Xylenes - Total*	0.003	mg/L	< 3	< 3	< 0.3	< 3
4-Bromofluorobenzene (surr.)	1	%	82	92	93	88
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.01	mg/L	< 1	< 1	< 0.1	< 1
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	G07_	G07_	7.1	G07_
TRH C6-C10	0.02	mg/L	< 20	< 20	< 2	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 20	< 20	< 2	< 20
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	0.05	mg/L	G07N/A	G07N/A	7.1	G07N/A
TRH >C16-C34	0.1	mg/L	G07N/A	G07N/A	2.4	G07N/A
TRH >C34-C40	0.1	mg/L	G07N/A	G07N/A	< 1	G07N/A
TRH >C10-C40 (total)*	0.1	mg/L	G07_	G07_	9.5	G07_

Client Sample ID			G01W005	G01W006	G01W007	G01W008
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			B23-Se0039307	B23-Se0039308	B23-Se0039309	B23-Se0039310
Date Sampled			Sep 15, 2023	Sep 15, 2023	Sep 15, 2023	Sep 15, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.1	< 0.1	0.19	0.30
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	0.26	< 0.1	1.0	< 0.1
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.1	0.13	0.19	0.19
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	0.17	0.38	0.70	0.45
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.1	< 0.1	< 0.1	< 0.1
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	0.04	< 0.1	< 0.1	< 0.1
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.1	< 0.1	< 0.1	< 0.1
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.1	< 0.1	< 0.1	< 0.1
Perfluorotridecanoic acid (PFTrDA) ^{N15}	0.01	ug/L	< 0.1	< 0.1	< 0.1	< 0.1
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.1	< 0.1	< 0.1	< 0.1
13C4-PFBA (surr.)	1	%	102	109	109	117
13C5-PFPeA (surr.)	1	%	78	115	97	142
13C5-PFHxA (surr.)	1	%	63	84	108	126
13C4-PFHpA (surr.)	1	%	58	142	87	88
13C8-PFOA (surr.)	1	%	98	50	111	118
13C5-PFNA (surr.)	1	%	113	141	143	51
13C6-PFDA (surr.)	1	%	95	147	83	76
13C2-PFUnDA (surr.)	1	%	145	74	120	101
13C2-PFDoDA (surr.)	1	%	117	149	95	98
13C2-PFTeDA (surr.)	1	%	118	144	86	97
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
13C8-FOSA (surr.)	1	%	111	131	101	100
D3-N-MeFOSA (surr.)	1	%	94	93	92	73
D5-N-EtFOSA (surr.)	1	%	112	127	103	105
D7-N-MeFOSE (surr.)	1	%	106	136	95	98
D9-N-EtFOSE (surr.)	1	%	105	89	100	77
D5-N-EtFOSAA (surr.)	1	%	154	118	79	86
D3-N-MeFOSAA (surr.)	1	%	130	57	77	87
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.1	< 0.1	< 0.1	< 0.1
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.1	< 0.1	< 0.1	< 0.1
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.1	< 0.1	< 0.1	< 0.1
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.1	< 0.1	< 0.1	< 0.1
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	^{N09} 0.80	< 0.1	< 0.1	< 0.1
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.1	< 0.1	< 0.1	< 0.1
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			G01W005	G01W006	G01W007	G01W008
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			B23-Se0039307	B23-Se0039308	B23-Se0039309	B23-Se0039310
Date Sampled			Sep 15, 2023	Sep 15, 2023	Sep 15, 2023	Sep 15, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
13C3-PFBS (surr.)	1	%	77	78	117	83
18O2-PFHxS (surr.)	1	%	140	141	109	145
13C8-PFOS (surr.)	1	%	81	115	113	82
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.1	< 0.1	< 0.1	< 0.1
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.5	4.0	4.6	2.8
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	0.21	1.8	4.4	3.0
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.1	< 0.1	< 0.1	< 0.1
13C2-4:2 FTSA (surr.)	1	%	76	121	57	108
13C2-6:2 FTSA (surr.)	1	%	34	143	71	128
13C2-8:2 FTSA (surr.)	1	%	97	74	Q0948	54
13C2-10:2 FTSA (surr.)	1	%	104	78	125	101
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.8	< 0.1	< 0.1	< 0.1
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.17	0.38	0.7	0.45
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.97	0.38	0.7	0.45
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	1.44	6.31	11.08	6.74
Sum of PFASs (n=30)*	0.1	ug/L	1.48	6.31	11.08	6.74

Client Sample ID			G01W009	G01W010	TRIP BLANK
Sample Matrix			Water	Water	Trip Blank (liquid)
Eurofins Sample No.			B23-Se0039311	B23-Se0039312	B23-Se0040156
Date Sampled			Sep 15, 2023	Sep 15, 2023	Sep 15, 2023
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	0.02	mg/L	< 2	< 2	< 0.02
TRH C10-C14	0.05	mg/L	G07N/A	0.94	-
TRH C15-C28	0.1	mg/L	G07N/A	< 1	-
TRH C29-C36	0.1	mg/L	G07N/A	1.0	-
TRH C10-C36 (Total)	0.1	mg/L	G07< 0	1.94	-
BTEX					
Benzene	0.001	mg/L	< 0.1	< 0.1	< 0.001
Toluene	0.001	mg/L	< 0.1	< 0.1	< 0.001
Ethylbenzene	0.001	mg/L	< 0.1	< 0.1	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.2	< 0.2	< 0.002
o-Xylene	0.001	mg/L	< 0.1	< 0.1	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.3	< 0.3	< 0.003
4-Bromofluorobenzene (surr.)	1	%	96	96	86
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene ^{N02}	0.01	mg/L	< 0.1	< 0.1	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	G07-	0.85	-
TRH C6-C10	0.02	mg/L	< 2	< 2	-
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 2	< 2	-

Client Sample ID			G01W009	G01W010	TRIP BLANK
Sample Matrix			Water	Water	Trip Blank (liquid)
Eurofins Sample No.			B23-Se0039311	B23-Se0039312	B23-Se0040156
Date Sampled			Sep 15, 2023	Sep 15, 2023	Sep 15, 2023
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
TRH >C10-C16	0.05	mg/L	^{G07} N/A	0.85	-
TRH >C16-C34	0.1	mg/L	^{G07} N/A	1.3	-
TRH >C34-C40	0.1	mg/L	^{G07} N/A	0.9	-
TRH >C10-C40 (total)*	0.1	mg/L	^{G07} -	3.05	-
Perfluoroalkyl carboxylic acids (PFCAs)					
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	33	< 0.5	-
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	72	< 0.1	-
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	64	2.4	-
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	12	< 0.1	-
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	8.8	0.13	-
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	3.5	< 0.1	-
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	1.7	< 0.1	-
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	0.79	< 0.1	-
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	0.34	< 0.1	-
Perfluorotridecanoic acid (PFTrDA) ^{N15}	0.01	ug/L	0.30	< 0.1	-
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	0.19	< 0.1	-
13C4-PFBA (surr.)	1	%	126	54	-
13C5-PFPeA (surr.)	1	%	126	60	-
13C5-PFHxA (surr.)	1	%	129	51	-
13C4-PFHpA (surr.)	1	%	111	38	-
13C8-PFOA (surr.)	1	%	135	51	-
13C5-PFNA (surr.)	1	%	131	62	-
13C6-PFDA (surr.)	1	%	102	48	-
13C2-PFUnDA (surr.)	1	%	132	69	-
13C2-PFDoDA (surr.)	1	%	97	51	-
13C2-PFTeDA (surr.)	1	%	90	43	-
Perfluoroalkyl sulfonamido substances					
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.5	< 0.5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.5	< 0.5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.5	< 0.5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.5	< 0.5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.5	< 0.5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.5	< 0.5	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.5	< 0.5	-
13C8-FOSA (surr.)	1	%	108	38	-
D3-N-MeFOSA (surr.)	1	%	108	36	-
D5-N-EtFOSA (surr.)	1	%	118	39	-
D7-N-MeFOSE (surr.)	1	%	102	39	-
D9-N-EtFOSE (surr.)	1	%	109	37	-
D5-N-EtFOSAA (surr.)	1	%	86	72	-
D3-N-MeFOSAA (surr.)	1	%	84	65	-

Client Sample ID			G01W009	G01W010	TRIP BLANK
Sample Matrix			Water	Water	Trip Blank (liquid)
Eurofins Sample No.			B23-Se0039311	B23-Se0039312	B23-Se0040156
Date Sampled			Sep 15, 2023	Sep 15, 2023	Sep 15, 2023
Test/Reference	LOR	Unit			
Perfluoroalkyl sulfonic acids (PFASs)					
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.1	< 0.1	-
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.1	< 0.1	-
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.1	< 0.1	-
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	0.22	< 0.1	-
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	^{N09} 0.99	< 0.1	-
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	^{N09} 0.15	< 0.1	-
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	^{N09} < 0.01	< 0.01	-
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.1	< 0.1	-
13C3-PFBS (surr.)	1	%	130	70	-
18O2-PFHxS (surr.)	1	%	137	76	-
13C8-PFOS (surr.)	1	%	132	75	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	0.28	< 0.1	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	200	< 0.5	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	33	< 0.1	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	5.3	< 0.1	-
13C2-4:2 FTSA (surr.)	1	%	104	23	-
13C2-6:2 FTSA (surr.)	1	%	50	36	-
13C2-8:2 FTSA (surr.)	1	%	67	32	-
13C2-10:2 FTSA (surr.)	1	%	92	60	-
PFASs Summations					
Sum (PFHxS + PFOS)*	0.01	ug/L	0.99	< 0.1	-
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	8.8	0.13	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	9.79	0.13	-
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	423.79	2.53	-
Sum of PFASs (n=30)*	0.1	ug/L	436.56	2.53	-
Naphthalene ^{N02}	0.01	mg/L	-	-	< 0.01
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	-	-	< 0.02
Total Recoverable Hydrocarbons					
TRH C6-C10	0.02	mg/L	-	-	< 0.02

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Brisbane	Sep 19, 2023	7 Days
BTEX - Method: USEPA SW846 8260	Brisbane	Sep 19, 2023	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Brisbane	Sep 19, 2023	7 Days
Naphthalene - Method: USEPA 8260B - MGT 350A Volatile Organics by GCMS	Brisbane	Sep 19, 2023	14 Days
Total Recoverable Hydrocarbons - Method: LTM-ORG-2010 TRH C6-C40	Brisbane	Sep 19, 2023	7 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Brisbane	Sep 19, 2023	7 Days
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Sep 19, 2023	28 Days
Perfluoroalkyl sulfonamido substances - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Sep 19, 2023	28 Days
Perfluoroalkyl sulfonic acids (PFSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Sep 19, 2023	28 Days
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Sep 19, 2023	28 Days

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

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

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Company Name: ADE Consulting Group QLD
Address: 10/53 Metroplex Ave
Murarrie
QLD 4172

Project Name: A103021.1540.00
Project ID: A103021.1540.00

Order No.:
Report #: 1026894
Phone: 1300 796 922
Fax:

Received: Sep 19, 2023 8:46 AM
Due: Sep 20, 2023
Priority: 1 Day
Contact Name: Matthew Toole

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						HOLD	Moisture Set	Eurofins Suite B1	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X	X
External Laboratory										
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID					
1	W001	Sep 15, 2023		Water	B23-Se0039303			X		X
2	W002	Sep 15, 2023		Water	B23-Se0039304			X		X
3	W003	Sep 15, 2023		Water	B23-Se0039305			X		X
4	W004	Sep 15, 2023		Water	B23-Se0039306			X		X
5	W005	Sep 15, 2023		Water	B23-Se0039307			X		X
6	W006	Sep 15, 2023		Water	B23-Se0039308			X		X
7	W007	Sep 15, 2023		Water	B23-Se0039309			X		X
8	W008	Sep 15, 2023		Water	B23-Se0039310			X		X
9	W009	Sep 15, 2023		Water	B23-Se0039311			X		X
10	W010	Sep 15, 2023		Water	B23-Se0039312			X		X
11	S001	Sep 15, 2023		Soil	B23-Se0039313		X			X
12	S005	Sep 15, 2023		Soil	B23-Se0039314		X			X

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Perth	Auckland	Christchurch	Tauranga
46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370	35 O'Rourke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

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Contact Name: Matthew Toole

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						HOLD	Moisture Set	Eurofins Suite B1	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X	X
13	S006	Sep 15, 2023		Soil	B23-Se0039315		X			X
14	S008	Sep 15, 2023		Soil	B23-Se0039316		X			X
15	S002	Sep 15, 2023		Soil	B23-Se0039317	X				
16	S003	Sep 15, 2023		Soil	B23-Se0039318	X				
17	S004	Sep 15, 2023		Soil	B23-Se0039319	X				
18	S007	Sep 15, 2023		Soil	B23-Se0039320	X				
19	S009	Sep 15, 2023		Soil	B23-Se0039321	X				
20	S010	Sep 15, 2023		Soil	B23-Se0039322	X				
21	TRIP BLANK	Sep 15, 2023		Trip Blank (liquid)	B23-Se0040156				X	
Test Counts						6	4	10	1	14

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 (<i>bis</i> -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. SVOCs recoveries 20 – 150%

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/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05			0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05			0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05			0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/L	< 0.05			0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/L	< 0.05			0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05			0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSA's)							
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01			0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01			0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01			0.01	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/L	< 0.05			0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01			0.01	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	104			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C10-C14	%	73			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	101			70-130	Pass	
Toluene	%	104			70-130	Pass	
Ethylbenzene	%	110			70-130	Pass	
m&p-Xylenes	%	112			70-130	Pass	
Xylenes - Total*	%	111			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH C6-C10	%	107			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH >C10-C16	%	72			70-130	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	92			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	99			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	88			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	95			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	94			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	95			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	82			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	88			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	91			50-150	Pass	
Perfluorotridecanoic acid (PFTriDA)	%	95			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	93			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	80			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	97			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	84			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	104			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	84			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	91			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	90			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	79			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	100			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	81			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	79			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	74			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	87			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	88			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	89			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	94			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	89			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	95			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	97			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	B23-Se0036603	NCP	%	103		70-130	Pass	
TRH C10-C14	B23-Se0033708	NCP	%	75		70-130	Pass	
Spike - % Recovery								
BTEX				Result 1				
Benzene	B23-Se0036603	NCP	%	97		70-130	Pass	
Toluene	B23-Se0036603	NCP	%	97		70-130	Pass	
Ethylbenzene	B23-Se0036603	NCP	%	102		70-130	Pass	
m&p-Xylenes	B23-Se0036603	NCP	%	103		70-130	Pass	
o-Xylene	B23-Se0036603	NCP	%	96		70-130	Pass	
Xylenes - Total*	B23-Se0036603	NCP	%	101		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1				
TRH C6-C10	B23-Se0036603	NCP	%	103		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1				
TRH >C10-C16	B23-Se0033708	NCP	%	73		70-130	Pass	
Spike - % Recovery								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1				
Perfluorobutanoic acid (PFBA)	B23-Se0039310	CP	%	90		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	B23-Se0039310	CP	%	83		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	B23-Se0039310	CP	%	86		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	B23-Se0039310	CP	%	93		50-150	Pass	
Perfluorooctanoic acid (PFOA)	B23-Se0039310	CP	%	89		50-150	Pass	
Perfluorononanoic acid (PFNA)	B23-Se0039310	CP	%	88		50-150	Pass	
Perfluorodecanoic acid (PFDA)	B23-Se0039310	CP	%	81		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	B23-Se0039310	CP	%	84		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	B23-Se0039310	CP	%	95		50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	B23-Se0039310	CP	%	90		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	B23-Se0039310	CP	%	82		50-150	Pass	
Spike - % Recovery								
Perfluoroalkyl sulfonamido substances				Result 1				
Perfluorooctane sulfonamide (FOSA)	B23-Se0039310	CP	%	76		50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Se0039310	CP	%	103		50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Se0039310	CP	%	83		50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Se0039310	CP	%	91		50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Se0039310	CP	%	89		50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Se0039310	CP	%	81		50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Se0039310	CP	%	83		50-150	Pass	
Spike - % Recovery								
Perfluoroalkyl sulfonic acids (PFSA's)				Result 1				
Perfluorobutanesulfonic acid (PFBS)	B23-Se0039310	CP	%	67		50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	B23-Se0039310	CP	%	102		50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoropropanesulfonic acid (PFPrS)	B23-Se0039310	CP	%	131			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	B23-Se0039310	CP	%	86			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	B23-Se0039310	CP	%	68			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	B23-Se0039310	CP	%	62			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	B23-Se0039310	CP	%	79			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	B23-Se0039310	CP	%	105			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Se0039310	CP	%	97			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Se0039310	CP	%	90			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Se0039310	CP	%	91			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Se0039310	CP	%	84			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	B23-Se0036602	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	B23-Se0034782	NCP	mg/L	0.15	0.15	4.0	30%	Pass	
TRH C15-C28	B23-Se0034782	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	B23-Se0034782	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	B23-Se0036602	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	B23-Se0036602	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	B23-Se0036602	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	B23-Se0036602	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	B23-Se0036602	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	B23-Se0036602	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	B23-Se0036602	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
TRH C6-C10	B23-Se0036602	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	B23-Se0034782	NCP	mg/L	0.15	0.14	3.0	30%	Pass	
TRH >C16-C34	B23-Se0034782	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	B23-Se0034782	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCA)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	B23-Se0039309	CP	ug/L	< 0.5	< 0.5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	B23-Se0039309	CP	ug/L	0.19	0.16	20	30%	Pass	
Perfluorohexanoic acid (PFHxA)	B23-Se0039309	CP	ug/L	1.0	0.91	12	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	B23-Se0039309	CP	ug/L	0.19	0.16	16	30%	Pass	
Perfluorooctanoic acid (PFOA)	B23-Se0039309	CP	ug/L	0.70	0.63	11	30%	Pass	
Perfluorononanoic acid (PFNA)	B23-Se0039309	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass	

Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorodecanoic acid (PFDA)	B23-Se0039309	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	B23-Se0039309	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	B23-Se0039309	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	B23-Se0039309	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	B23-Se0039309	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	B23-Se0039309	CP	ug/L	< 0.5	< 0.5	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Se0039309	CP	ug/L	< 0.5	< 0.5	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Se0039309	CP	ug/L	< 0.5	< 0.5	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Se0039309	CP	ug/L	< 0.5	< 0.5	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Se0039309	CP	ug/L	< 0.5	< 0.5	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Se0039309	CP	ug/L	< 0.5	< 0.5	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Se0039309	CP	ug/L	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	B23-Se0039309	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	B23-Se0039309	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	B23-Se0039309	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	B23-Se0039309	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	B23-Se0039309	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	B23-Se0039309	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	B23-Se0039309	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Se0039309	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Se0039309	CP	ug/L	4.6	4.2	9.0	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Se0039309	CP	ug/L	4.4	3.9	12	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Se0039309	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass

Comments

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
G01	The LORs have been raised due to matrix interference
G07	Analysis indeterminable 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.
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.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q09	The Surrogate recovery is outside of the recommended acceptance criteria due to matrix interference. Acceptance criteria were met for all other QC
R16	The LORs have been raised due to the high concentration of one or more analytes

Authorised by:

Paige Howarth	Analytical Services Manager
Angelique Lang-Frey	Senior Analyst-Organic
Jonathon Angell	Senior Analyst-PFAS
Sarah McCallion	Senior Analyst-Volatile



Glenn Jackson
Managing Director

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](#).

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

ADE Consulting Group QLD
10/53 Metroplex Ave
Murarrie
QLD 4172



NATA Accredited
Accreditation Number 1261
Site Number 20794

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: **Matthew Toole**

Report **1028097-S**
Project name **A103021.1540.00**
Project ID **A103021.1540.00**
Received Date **Sep 21, 2023**

Client Sample ID			G01 W001	R16 W002	R16 W003
Sample Matrix			TOP - Product	TOP - Product	TOP - Product
Eurofins Sample No.			B23- Se0049211	B23- Se0049212	B23- Se0049213
Date Sampled			Sep 15, 2023	Sep 15, 2023	Sep 15, 2023
Test/Reference	LOR	Unit			
Perfluoroalkyl carboxylic acids (PFCAs)					
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 100	4200	5700
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 100	6500	11000
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 100	6800	8800
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 100	8500	2200
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 100	4000	740
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 100	780	130
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 100	< 100	< 100
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 100	< 100	< 100
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 100	< 100	< 100
Perfluorotridecanoic acid (PFTrDA) ^{N15}	5	ug/kg	< 100	< 100	< 100
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 100	< 100	< 100
13C4-PFBA (surr.)	1	%	87	74	79
13C5-PFPeA (surr.)	1	%	103	82	88
13C5-PFHxA (surr.)	1	%	99	78	84
13C4-PFHpA (surr.)	1	%	68	75	84
13C8-PFOA (surr.)	1	%	71	76	81
13C5-PFNA (surr.)	1	%	87	51	51
13C6-PFDA (surr.)	1	%	96	56	58
13C2-PFUnDA (surr.)	1	%	107	104	103
13C2-PFDoDA (surr.)	1	%	100	63	63
13C2-PFTeDA (surr.)	1	%	94	57	64
Perfluoroalkyl sulfonamido substances					
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 100	< 100	< 100
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 100	< 100	< 100
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 100	< 100	< 100
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	5	ug/kg	< 100	< 100	< 100
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	5	ug/kg	< 100	< 100	< 100
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 100	< 100	< 100
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 100	< 100	< 100
13C8-FOSA (surr.)	1	%	114	74	76
D3-N-MeFOSA (surr.)	1	%	106	67	69

Client Sample ID			G01 W001	R16 W002	R16 W003
Sample Matrix			TOP - Product	TOP - Product	TOP - Product
Eurofins Sample No.			B23- Se0049211	B23- Se0049212	B23- Se0049213
Date Sampled			Sep 15, 2023	Sep 15, 2023	Sep 15, 2023
Test/Reference	LOR	Unit			
Perfluoroalkyl sulfonamido substances					
D5-N-EtFOSA (surr.)	1	%	121	78	80
D7-N-MeFOSE (surr.)	1	%	115	78	77
D9-N-EtFOSE (surr.)	1	%	118	80	81
D5-N-EtFOSAA (surr.)	1	%	116	76	76
D3-N-MeFOSAA (surr.)	1	%	117	76	80
Perfluoroalkyl sulfonic acids (PFASs)					
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 100	< 100	< 100
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 100	< 100	< 100
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 100	< 100	< 100
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 100	< 100	< 100
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 100	< 100	< 100
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 100	< 100	< 100
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	^{N09} < 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 100	< 100	< 100
13C3-PFBS (surr.)	1	%	104	71	68
18O2-PFHxS (surr.)	1	%	95	63	66
13C8-PFOS (surr.)	1	%	107	65	67
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 100	< 100	< 100
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 100	< 100	< 100
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 100	< 100	< 100
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 100	< 100	< 100
13C2-4:2 FTSA (surr.)	1	%	78	50	50
13C2-6:2 FTSA (surr.)	1	%	67	83	104
13C2-8:2 FTSA (surr.)	1	%	74	74	71
13C2-10:2 FTSA (surr.)	1	%	120	75	72
PFASs Summations					
Sum (PFHxS + PFOS)*	5	ug/kg	< 100	< 100	< 100
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 100	4000	740
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 100	4000	740
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 100	30000	28440
Sum of PFASs (n=30)*	50	ug/kg	< 100	30780	28570

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)			
Perfluoroalkyl carboxylic acids (PFCAs)	Brisbane	Sep 21, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Brisbane	Sep 21, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Brisbane	Sep 21, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Brisbane	Sep 21, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			



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

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Company Name: ADE Consulting Group QLD
Address: 10/53 Metroplex Ave
Murarrie
QLD 4172

Project Name: A103021.1540.00
Project ID: A103021.1540.00

Order No.:
Report #: 1028097
Phone: 1300 796 922
Fax:

Received: Sep 21, 2023 2:33 PM
Due: Sep 26, 2023
Priority: 3 Day
Contact Name: Matthew Toole

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Total Oxidisable Precursor	Per- and Polyfluoroalkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X
External Laboratory							
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID		
1	W001	Sep 15, 2023		TOP - Product	B23-Se0049211	X	X
2	W002	Sep 15, 2023		TOP - Product	B23-Se0049212	X	X
3	W003	Sep 15, 2023		TOP - Product	B23-Se0049213	X	X
Test Counts						3	3

Internal Quality Control Review and Glossary

General

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

Holding Times

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

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

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

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

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

Units

mg/kg: milligrams per kilogram	mg/L: milligrams per litre	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 (<i>bis</i> -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. SVOCs recoveries 20 – 150%

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

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

Quality Control Results

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank									
Perfluoroalkyl carboxylic acids (PFCAs)									
Perfluorobutanoic acid (PFBA)			ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)			ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)			ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)			ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)			ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)			ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)			ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)			ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)			ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTriDA)			ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)			ug/kg	< 5			5	Pass	
Method Blank									
Perfluoroalkyl sulfonamido substances									
Perfluorooctane sulfonamide (FOSA)			ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)			ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)			ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)			ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)			ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)			ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)			ug/kg	< 10			10	Pass	
Method Blank									
Perfluoroalkyl sulfonic acids (PFSA's)									
Perfluorobutanesulfonic acid (PFBS)			ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)			ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)			ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)			ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)			ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)			ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)			ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)			ug/kg	< 5			5	Pass	
Method Blank									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)									
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)			ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)			ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)			ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)			ug/kg	< 5			5	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	B23-Se0049211	CP	ug/kg	< 100	< 100	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	B23-Se0049211	CP	ug/kg	< 100	< 100	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	B23-Se0049211	CP	ug/kg	< 100	< 100	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	B23-Se0049211	CP	ug/kg	< 100	< 100	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	B23-Se0049211	CP	ug/kg	< 100	< 100	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	B23-Se0049211	CP	ug/kg	< 100	< 100	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	B23-Se0049211	CP	ug/kg	< 100	< 100	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	B23-Se0049211	CP	ug/kg	< 100	< 100	<1	30%	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorododecanoic acid (PFDoDA)	B23-Se0049211	CP	ug/kg	< 100	< 100	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	B23-Se0049211	CP	ug/kg	< 100	< 100	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	B23-Se0049211	CP	ug/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	B23-Se0049211	CP	ug/kg	< 100	< 100	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Se0049211	CP	ug/kg	< 100	< 100	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Se0049211	CP	ug/kg	< 100	< 100	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Se0049211	CP	ug/kg	< 100	< 100	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Se0049211	CP	ug/kg	< 100	< 100	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Se0049211	CP	ug/kg	< 100	< 100	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Se0049211	CP	ug/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	B23-Se0049211	CP	ug/kg	< 100	< 100	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	B23-Se0049211	CP	ug/kg	< 100	< 100	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	B23-Se0049211	CP	ug/kg	< 100	< 100	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	B23-Se0049211	CP	ug/kg	< 100	< 100	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	B23-Se0049211	CP	ug/kg	< 100	< 100	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	B23-Se0049211	CP	ug/kg	< 100	< 100	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	B23-Se0049211	CP	ug/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Se0049211	CP	ug/kg	< 100	< 100	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Se0049211	CP	ug/kg	< 100	< 100	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Se0049211	CP	ug/kg	< 100	< 100	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Se0049211	CP	ug/kg	< 100	< 100	<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
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.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
R16	The LORs have been raised due to the high concentration of one or more analytes

Authorised by:

Paige Howarth	Analytical Services Manager
Jonathon Angell	Senior Analyst-PFAS



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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ADE Consulting Group QLD
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Attention: **Matthew Toole**

Report **1030176-S**
Project name **A103021.1540.00**
Project ID **A103021.1540.00**
Received Date **Sep 28, 2023**

Client Sample ID			BT-1-0-1	BT-1-0-1	BT-1-0-2	BT-1-0-2
Sample Matrix			Soil	TOP - Soil	Soil	TOP - Soil
Eurofins Sample No.			B23- Se0067052	B23- Se0067053	B23- Se0067055	B23- Se0067056
Date Sampled			Sep 28, 2023	Sep 28, 2023	Sep 28, 2023	Sep 28, 2023
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	29	30	24	29
Sample Comment				-	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTeDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	66	INT	60	97
13C5-PFPeA (surr.)	1	%	75	79	73	139
13C5-PFHxA (surr.)	1	%	77	111	72	107
13C4-PFHpA (surr.)	1	%	68	97	69	98
13C8-PFOA (surr.)	1	%	71	104	80	94
13C5-PFNA (surr.)	1	%	65	104	69	94
13C6-PFDA (surr.)	1	%	72	109	76	88
13C2-PFUnDA (surr.)	1	%	78	91	74	78
13C2-PFDoDA (surr.)	1	%	108	103	114	119
13C2-PFTeDA (surr.)	1	%	91	104	89	94
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	BT-1-0-1 Soil B23- Se0067052 Sep 28, 2023	BT-1-0-1 TOP - Soil B23- Se0067053 Sep 28, 2023	BT-1-0-2 Soil B23- Se0067055 Sep 28, 2023	BT-1-0-2 TOP - Soil B23- Se0067056 Sep 28, 2023
Perfluoroalkyl sulfonamido substances						
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	56	102	63	98
D3-N-MeFOSA (surr.)	1	%	93	142	98	98
D5-N-EtFOSA (surr.)	1	%	116	123	121	96
D7-N-MeFOSE (surr.)	1	%	147	123	121	99
D9-N-EtFOSE (surr.)	1	%	58	110	81	94
D5-N-EtFOSAA (surr.)	1	%	103	124	91	103
D3-N-MeFOSAA (surr.)	1	%	84	117	75	89
Perfluoroalkyl sulfonic acids (PFSA's)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	116	100	91	92
18O2-PFHxS (surr.)	1	%	94	124	104	122
13C8-PFOS (surr.)	1	%	130	104	144	94
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	144	135	88	104
13C2-6:2 FTSA (surr.)	1	%	151	104	105	94
13C2-8:2 FTSA (surr.)	1	%	82	104	104	94
13C2-10:2 FTSA (surr.)	1	%	91	153	61	114
PFASs Summations						
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
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			BT-1-0-3	BT-1-0-3	BT-1	BT-2-0-1
Sample Matrix			Soil	TOP - Soil	Soil	Soil
Eurofins Sample No.			B23- Se0067058	B23- Se0067059	B23- Se0067070	B23- Se0067071
Date Sampled			Sep 28, 2023	Sep 28, 2023	Sep 28, 2023	Sep 28, 2023
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	30	30	26	13
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	-	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	G01< 7	-	9.0
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5	-	30
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5	-	7.1
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	-	19
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	-	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	-	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	-	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	-	< 5
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	5	ug/kg	< 5	< 5	-	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	-	< 5
13C4-PFBA (surr.)	1	%	39	73	-	25
13C5-PFPeA (surr.)	1	%	46	139	-	30
13C5-PFHxA (surr.)	1	%	48	103	-	47
13C4-PFHpA (surr.)	1	%	51	102	-	49
13C8-PFOA (surr.)	1	%	54	96	-	46
13C5-PFNA (surr.)	1	%	53	96	-	48
13C6-PFDA (surr.)	1	%	49	87	-	44
13C2-PFUnDA (surr.)	1	%	61	71	-	54
13C2-PFDoDA (surr.)	1	%	88	107	-	82
13C2-PFTeDA (surr.)	1	%	80	96	-	85
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	-	< 10
13C8-FOSA (surr.)	1	%	53	100	-	63
D3-N-MeFOSA (surr.)	1	%	74	89	-	93
D5-N-EtFOSA (surr.)	1	%	104	83	-	137
D7-N-MeFOSE (surr.)	1	%	77	88	-	171
D9-N-EtFOSE (surr.)	1	%	83	100	-	87
D5-N-EtFOSAA (surr.)	1	%	56	102	-	78
D3-N-MeFOSAA (surr.)	1	%	52	81	-	52
Perfluoroalkyl sulfonic acids (PFSA's)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	-	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	-	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	-	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	-	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	-	N097.0
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	-	< 5

Client Sample ID			BT-1-0-3	BT-1-0-3	BT-1	BT-2-0-1
Sample Matrix			Soil	TOP - Soil	Soil	Soil
Eurofins Sample No.			B23- Se0067058	B23- Se0067059	B23- Se0067070	B23- Se0067071
Date Sampled			Sep 28, 2023	Sep 28, 2023	Sep 28, 2023	Sep 28, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	-	^{N09} < 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	-	< 5
13C3-PFBS (surr.)	1	%	79	98	-	121
18O2-PFHxS (surr.)	1	%	77	122	-	95
13C8-PFOS (surr.)	1	%	116	96	-	118
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	-	100
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	-	11
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	-	< 5
13C2-4:2 FTSA (surr.)	1	%	53	124	-	120
13C2-6:2 FTSA (surr.)	1	%	41	96	-	112
13C2-8:2 FTSA (surr.)	1	%	41	96	-	67
13C2-10:2 FTSA (surr.)	1	%	50	107	-	34
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	-	7
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	-	19
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	-	26
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	-	183.1
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	-	183.1
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	-	-	200	-
TRH C29-C36	50	mg/kg	-	-	96	-
TRH C10-C36 (Total)	50	mg/kg	-	-	296	-
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	%	-	-	77	-
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	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	270	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	270	-

Client Sample ID			BT-2-0-1	BT-2-0-2	BT-2-0-2	BT-2-0-3
Sample Matrix			TOP - Soil	Soil	TOP - Soil	Soil
Eurofins Sample No.			B23- Se0067072	B23- Se0067074	B23- Se0067075	B23- Se0067077
Date Sampled			Sep 28, 2023	Sep 28, 2023	Sep 28, 2023	Sep 28, 2023
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	12	11	8.6	10
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	290	< 5	230	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	560	7.4	490	6.0
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	340	26	270	23
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	510	6.0	430	6.8
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	^{N09} 91	18	^{N09} 90	14
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	17	< 5	13	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	96	27	108	29
13C5-PFPeA (surr.)	1	%	101	32	97	35
13C5-PFHxA (surr.)	1	%	100	53	104	52
13C4-PFHpA (surr.)	1	%	81	50	79	44
13C8-PFOA (surr.)	1	%	82	48	66	53
13C5-PFNA (surr.)	1	%	65	54	61	49
13C6-PFDA (surr.)	1	%	65	50	57	46
13C2-PFUnDA (surr.)	1	%	68	51	60	51
13C2-PFDoDA (surr.)	1	%	97	101	92	94
13C2-PFTeDA (surr.)	1	%	65	97	61	86
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	100	68	71	63
D3-N-MeFOSA (surr.)	1	%	77	89	84	105
D5-N-EtFOSA (surr.)	1	%	77	140	80	124
D7-N-MeFOSE (surr.)	1	%	84	INT	80	INT
D9-N-EtFOSE (surr.)	1	%	75	143	94	131
D5-N-EtFOSAA (surr.)	1	%	88	72	75	66
D3-N-MeFOSAA (surr.)	1	%	79	55	65	59
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	^{N09} 7.3	^{N09} 6.4	^{N09} 5.4	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5

Client Sample ID			BT-2-0-1	BT-2-0-2	BT-2-0-2	BT-2-0-3
Sample Matrix			TOP - Soil	Soil	TOP - Soil	Soil
Eurofins Sample No.			B23- Se0067072	B23- Se0067074	B23- Se0067075	B23- Se0067077
Date Sampled			Sep 28, 2023	Sep 28, 2023	Sep 28, 2023	Sep 28, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	N09< 5	N09< 5	N09< 5	N09< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	70	119	70	111
18O2-PFHxS (surr.)	1	%	101	96	92	92
13C8-PFOS (surr.)	1	%	82	120	66	120
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	10	ug/kg	< 10	68	< 10	63
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	7.0	< 5	8.2
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	78	128	72	109
13C2-6:2 FTSA (surr.)	1	%	65	183	61	164
13C2-8:2 FTSA (surr.)	1	%	65	50	61	77
13C2-10:2 FTSA (surr.)	1	%	91	56	63	46
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	7.3	6.4	5.4	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	91	18	90	14
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	98.3	24.4	95.4	14
Sum of WA DWER PFAS (n=10)*	10	ug/kg	1798.3	138.8	1515.4	121
Sum of PFASs (n=30)*	50	ug/kg	1815.3	138.8	1528.4	121

Client Sample ID			BT-2-0-3	BT-2	BT-3-0-1	BT-3-0-1
Sample Matrix			TOP - Soil	Soil	Soil	TOP - Soil
Eurofins Sample No.			B23- Se0067078	B23- Se0067089	B23- Se0067090	B23- Se0067091
Date Sampled			Sep 28, 2023	Sep 28, 2023	Sep 28, 2023	Sep 28, 2023
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	12	11	21	23
Perfluoroalkyl carboxylic acids (PFCA)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	260	-	Q09160	190
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	550	-	Q09410	440
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	340	-	530	420
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	600	-	Q09210	150
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	N0990	-	90	N0922
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	18	-	7.4	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	-	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	-	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	-	< 5	< 5
Perfluorotridecanoic acid (PFTriDA) ^{N15}	5	ug/kg	< 5	-	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	-	< 5	< 5
13C4-PFBA (surr.)	1	%	97	-	39	71
13C5-PFPeA (surr.)	1	%	108	-	42	100
13C5-PFHxA (surr.)	1	%	102	-	61	102
13C4-PFHpA (surr.)	1	%	69	-	42	98

Client Sample ID			BT-2-0-3	BT-2	BT-3-0-1	BT-3-0-1
Sample Matrix			TOP - Soil	Soil	Soil	TOP - Soil
Eurofins Sample No.			B23- Se0067078	B23- Se0067089	B23- Se0067090	B23- Se0067091
Date Sampled			Sep 28, 2023	Sep 28, 2023	Sep 28, 2023	Sep 28, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C8-PFOA (surr.)	1	%	74	-	56	113
13C5-PFNA (surr.)	1	%	61	-	36	113
13C6-PFDA (surr.)	1	%	73	-	33	57
13C2-PFUnDA (surr.)	1	%	74	-	44	55
13C2-PFDoDA (surr.)	1	%	111	-	52	79
13C2-PFTeDA (surr.)	1	%	61	-	54	113
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	-	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	-	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	-	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	5	ug/kg	< 5	-	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	5	ug/kg	< 5	-	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	-	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	-	< 10	< 10
13C8-FOSA (surr.)	1	%	93	-	83	83
D3-N-MeFOSA (surr.)	1	%	94	-	144	34
D5-N-EtFOSA (surr.)	1	%	89	-	48	40
D7-N-MeFOSE (surr.)	1	%	87	-	59	40
D9-N-EtFOSE (surr.)	1	%	89	-	41	53
D5-N-EtFOSAA (surr.)	1	%	97	-	64	120
D3-N-MeFOSAA (surr.)	1	%	86	-	75	94
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	-	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	-	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	-	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	-	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	^{N09} 7.0	-	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	-	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	^{N09} < 5	-	< 5	^{N09} < 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	-	< 5	< 5
13C3-PFBS (surr.)	1	%	70	-	85	67
18O2-PFHxS (surr.)	1	%	106	-	57	134
13C8-PFOS (surr.)	1	%	74	-	104	113
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	-	< 5	15
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	10	ug/kg	< 10	-	< 10	3500
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	-	^{Q09} 210	520
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	-	6.8	16
13C2-4:2 FTSA (surr.)	1	%	107	-	55	60
13C2-6:2 FTSA (surr.)	1	%	61	-	INT	97
13C2-8:2 FTSA (surr.)	1	%	61	-	INT	97
13C2-10:2 FTSA (surr.)	1	%	118	-	81	142

Client Sample ID			BT-2-0-3	BT-2	BT-3-0-1	BT-3-0-1
Sample Matrix			TOP - Soil	Soil	Soil	TOP - Soil
Eurofins Sample No.			B23- Se0067078	B23- Se0067089	B23- Se0067090	B23- Se0067091
Date Sampled			Sep 28, 2023	Sep 28, 2023	Sep 28, 2023	Sep 28, 2023
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	7	-	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	90	-	90	22
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	97	-	90	22
Sum of WA DWER PFAS (n=10)*	10	ug/kg	1847	-	1610	5242
Sum of PFASs (n=30)*	50	ug/kg	1865	-	1624.2	5273
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	-	95	-	-
TRH C29-C36	50	mg/kg	-	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	-	95	-	-
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	-	-
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			BT-3-0-2	BT-3-0-2	BT-3-0-3	BT-3-0-3
Sample Matrix			Soil	TOP - Soil	Soil	TOP - Soil
Eurofins Sample No.			B23- Se0067093	B23- Se0067094	B23- Se0067096	B23- Se0067097
Date Sampled			Sep 28, 2023	Sep 28, 2023	Sep 28, 2023	Sep 28, 2023
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	22	22	21	23
Perfluoroalkyl carboxylic acids (PFCA)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	Q09130	200	Q09160	210
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	Q09330	460	380	520
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	Q09630	520	590	620
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	170	110	160	220
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	Q09160	N0920	71	N0924
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5

Client Sample ID			BT-3-0-2	BT-3-0-2	BT-3-0-3	BT-3-0-3
Sample Matrix			Soil	TOP - Soil	Soil	TOP - Soil
Eurofins Sample No.			B23- Se0067093	B23- Se0067094	B23- Se0067096	B23- Se0067097
Date Sampled			Sep 28, 2023	Sep 28, 2023	Sep 28, 2023	Sep 28, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTrDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	35	82	42	68
13C5-PFPeA (surr.)	1	%	42	87	55	93
13C5-PFHxA (surr.)	1	%	43	78	60	88
13C4-PFHpA (surr.)	1	%	21	107	58	82
13C8-PFOA (surr.)	1	%	28	105	64	123
13C5-PFNA (surr.)	1	%	57	105	57	123
13C6-PFDA (surr.)	1	%	36	39	58	41
13C2-PFUnDA (surr.)	1	%	42	31	46	36
13C2-PFDoDA (surr.)	1	%	55	42	59	51
13C2-PFTeDA (surr.)	1	%	62	105	63	123
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	74	59	40	74
D3-N-MeFOSA (surr.)	1	%	91	19	43	26
D5-N-EtFOSA (surr.)	1	%	140	19	46	33
D7-N-MeFOSE (surr.)	1	%	49	28	91	37
D9-N-EtFOSE (surr.)	1	%	26	19	59	30
D5-N-EtFOSAA (surr.)	1	%	32	62	37	76
D3-N-MeFOSAA (surr.)	1	%	25	53	26	60
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	N09< 5	N09< 5	N09< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	43	64	67	58
18O2-PFHxS (surr.)	1	%	51	115	60	112
13C8-PFOS (surr.)	1	%	107	67	105	123

Client Sample ID			BT-3-0-2	BT-3-0-2	BT-3-0-3	BT-3-0-3
Sample Matrix			Soil	TOP - Soil	Soil	TOP - Soil
Eurofins Sample No.			B23- Se0067093	B23- Se0067094	B23- Se0067096	B23- Se0067097
Date Sampled			Sep 28, 2023	Sep 28, 2023	Sep 28, 2023	Sep 28, 2023
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	12	< 5	17
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	10	ug/kg	560	4600	370	4700
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	1100	600	^{Q09} 1100	730
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	23	15	18	17
13C2-4:2 FTSA (surr.)	1	%	30	65	74	51
13C2-6:2 FTSA (surr.)	1	%	INT	67	INT	79
13C2-8:2 FTSA (surr.)	1	%	159	67	179	79
13C2-10:2 FTSA (surr.)	1	%	27	77	30	114
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	160	20	71	24
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	160	20	71	24
Sum of WA DWER PFAS (n=10)*	10	ug/kg	3080	6510	2831	7024
Sum of PFASs (n=30)*	50	ug/kg	3103	6537	2849	7058

Client Sample ID			BT-3	BT-4-0-1	BT-4-0-1	BT-4-0-2
Sample Matrix			Soil	Soil	TOP - Soil	Soil
Eurofins Sample No.			B23- Se0067108	B23- Se0067109	B23- Se0067110	B23- Se0067112
Date Sampled			Sep 28, 2023	Sep 28, 2023	Sep 28, 2023	Sep 28, 2023
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	24	24	23	26
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	-	< 5	10	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	5	ug/kg	-	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	-	43	66	89
13C5-PFPeA (surr.)	1	%	-	40	106	82
13C5-PFHxA (surr.)	1	%	-	48	92	82
13C4-PFHpA (surr.)	1	%	-	42	96	78
13C8-PFOA (surr.)	1	%	-	50	52	83
13C5-PFNA (surr.)	1	%	-	46	52	82
13C6-PFDA (surr.)	1	%	-	50	70	80
13C2-PFUnDA (surr.)	1	%	-	61	65	88
13C2-PFDoDA (surr.)	1	%	-	82	98	120
13C2-PFTeDA (surr.)	1	%	-	77	52	91

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	BT-3 Soil B23- Se0067108 Sep 28, 2023	BT-4-0-1 Soil B23- Se0067109 Sep 28, 2023	BT-4-0-1 TOP - Soil B23- Se0067110 Sep 28, 2023	BT-4-0-2 Soil B23- Se0067112 Sep 28, 2023
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	-	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	-	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	-	45	90	59
D3-N-MeFOSA (surr.)	1	%	-	101	80	136
D5-N-EtFOSA (surr.)	1	%	-	125	82	148
D7-N-MeFOSE (surr.)	1	%	-	82	104	149
D9-N-EtFOSE (surr.)	1	%	-	89	91	100
D5-N-EtFOSAA (surr.)	1	%	-	48	92	104
D3-N-MeFOSAA (surr.)	1	%	-	52	79	116
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	-	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	-	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	-	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	-	N09 7.8	N09 10	N09 11
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	-	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	-	N09 < 5	N09 < 5	N09 < 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	-	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	-	79	103	116
18O2-PFHxS (surr.)	1	%	-	60	107	92
13C8-PFOS (surr.)	1	%	-	78	52	101
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	-	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	-	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	-	26	103	68
13C2-6:2 FTSA (surr.)	1	%	-	16	44	55
13C2-8:2 FTSA (surr.)	1	%	-	INT	44	72
13C2-10:2 FTSA (surr.)	1	%	-	38	107	101
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	7.8	10	11
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5	< 5	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	7.8	10	11
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	< 10	20	11
Sum of PFASs (n=30)*	50	ug/kg	-	< 50	< 50	< 50

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	BT-3 Soil B23- Se0067108 Sep 28, 2023	BT-4-0-1 Soil B23- Se0067109 Sep 28, 2023	BT-4-0-1 TOP - Soil B23- Se0067110 Sep 28, 2023	BT-4-0-2 Soil B23- Se0067112 Sep 28, 2023
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	240	-	-	-
TRH C15-C28	50	mg/kg	1900	-	-	-
TRH C29-C36	50	mg/kg	1000	-	-	-
TRH C10-C36 (Total)	50	mg/kg	3140	-	-	-
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	%	74	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-	-	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	380	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	380	-	-	-
TRH >C16-C34	100	mg/kg	2500	-	-	-
TRH >C34-C40	100	mg/kg	670	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	3550	-	-	-

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	BT-4-0-2 TOP - Soil B23- Se0067113 Sep 28, 2023	BT-4-0-3 Soil B23- Se0067115 Sep 28, 2023	BT-4-0-3 TOP - Soil B23- Se0067116 Sep 28, 2023	BT-4 Soil B23- Se0067127 Sep 28, 2023
Sample Properties						
% Moisture	1	%	27	27	25	25
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	6.5	-
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	< 5	12	-
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	7.3	< 5	14	-
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	-
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
13C4-PFBA (surr.)	1	%	INT	57	124	-
13C5-PFPeA (surr.)	1	%	61	59	120	-
13C5-PFHxA (surr.)	1	%	103	58	97	-
13C4-PFHpA (surr.)	1	%	101	60	98	-

Client Sample ID			BT-4-0-2	BT-4-0-3	BT-4-0-3	BT-4
Sample Matrix			TOP - Soil	Soil	TOP - Soil	Soil
Eurofins Sample No.			B23- Se0067113	B23- Se0067115	B23- Se0067116	B23- Se0067127
Date Sampled			Sep 28, 2023	Sep 28, 2023	Sep 28, 2023	Sep 28, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C8-PFOA (surr.)	1	%	70	60	57	-
13C5-PFNA (surr.)	1	%	70	66	57	-
13C6-PFDA (surr.)	1	%	104	58	83	-
13C2-PFUnDA (surr.)	1	%	96	66	80	-
13C2-PFDoDA (surr.)	1	%	148	105	117	-
13C2-PFTeDA (surr.)	1	%	70	80	57	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	-
13C8-FOSA (surr.)	1	%	129	54	87	-
D3-N-MeFOSA (surr.)	1	%	121	114	82	-
D5-N-EtFOSA (surr.)	1	%	115	141	83	-
D7-N-MeFOSE (surr.)	1	%	129	INT	101	-
D9-N-EtFOSE (surr.)	1	%	136	95	91	-
D5-N-EtFOSAA (surr.)	1	%	141	68	102	-
D3-N-MeFOSAA (surr.)	1	%	111	58	86	-
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	-
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	-
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	-
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	^{N09} 8.5	^{N09} 5.9	^{N09} 7.7	-
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	-
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	^{N09} < 5	^{N09} < 5	^{N09} < 5	-
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	-
13C3-PFBS (surr.)	1	%	110	83	107	-
18O2-PFHxS (surr.)	1	%	131	76	111	-
13C8-PFOS (surr.)	1	%	70	80	75	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	-
13C2-4:2 FTSA (surr.)	1	%	125	45	102	-
13C2-6:2 FTSA (surr.)	1	%	70	27	57	-
13C2-8:2 FTSA (surr.)	1	%	70	41	57	-
13C2-10:2 FTSA (surr.)	1	%	192	44	123	-

Client Sample ID			BT-4-0-2	BT-4-0-3	BT-4-0-3	BT-4
Sample Matrix			TOP - Soil	Soil	TOP - Soil	Soil
Eurofins Sample No.			B23- Se0067113	B23- Se0067115	B23- Se0067116	B23- Se0067127
Date Sampled			Sep 28, 2023	Sep 28, 2023	Sep 28, 2023	Sep 28, 2023
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	8.5	5.9	7.7	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	8.5	5.9	7.7	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	15.8	< 10	40.2	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	-
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	-	< 20
TRH C10-C14	20	mg/kg	-	-	-	25
TRH C15-C28	50	mg/kg	-	-	-	100
TRH C29-C36	50	mg/kg	-	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	-	-	125
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	%	-	-	-	73
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	-	-	-	< 0.5
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	-	-	52
TRH C6-C10	20	mg/kg	-	-	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	-	-	-	< 20
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	-	-	-	52
TRH >C16-C34	100	mg/kg	-	-	-	< 100
TRH >C34-C40	100	mg/kg	-	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	-	< 100

Sample History

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

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

Description	Testing Site	Extracted	Holding Time
% Moisture - Method: LTM-GEN-7080 Moisture	Brisbane	Sep 28, 2023	14 Days
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Sep 29, 2023	28 Days
Perfluoroalkyl sulfonamido substances - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Sep 29, 2023	28 Days
Perfluoroalkyl sulfonic acids (PFASs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Sep 29, 2023	28 Days
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Sep 29, 2023	28 Days
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Brisbane	Sep 28, 2023	14 Days
BTEX - Method: USEPA SW846 8260	Brisbane	Sep 28, 2023	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Brisbane	Sep 28, 2023	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Brisbane	Sep 28, 2023	14 Days

Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	Geelong 19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 25403	Sydney 179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 18217	Canberra Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 NATA# 1261 Site# 25466	Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	Newcastle 1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 Site# 25079 & 25289
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Company Name: ADE Consulting Group QLD
Address: 10/53 Metroplex Ave
Murarrie
QLD 4172

Project Name: A103021.1540.00
Project ID: A103021.1540.00

Order No.:
Report #: 1030176
Phone: 1300 796 922
Fax:

Received: Sep 28, 2023 3:40 PM
Due: Oct 4, 2023
Priority: 3 Day
Contact Name: Matthew Toole

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Sample Comment	Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Eurofins Suite B1	Per- and Polyfluoralkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X	X	X
External Laboratory											
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID						
1	BT-1-0-1	Sep 28, 2023		Soil	B23-Se0067052	X			X		X
2	BT-1-0-1	Sep 28, 2023		TOP - Soil	B23-Se0067053		X		X		X
3	BT-1-0-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067054		X	X			X
4	BT-1-0-2	Sep 28, 2023		Soil	B23-Se0067055				X		X
5	BT-1-0-2	Sep 28, 2023		TOP - Soil	B23-Se0067056		X		X		X
6	BT-1-0-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067057		X	X			X
7	BT-1-0-3	Sep 28, 2023		Soil	B23-Se0067058				X		X
8	BT-1-0-3	Sep 28, 2023		TOP - Soil	B23-Se0067059		X		X		X
9	BT-1-0-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067060		X	X			X
10	BT-1-1-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067061		X	X			X

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

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

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35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

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Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Sample Comment	Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Eurofins Suite B1	Per- and Polyfluoralkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X	X	X
11	BT-1-1-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067062		X	X			X
12	BT-1-1-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067063		X	X			X
13	BT-1-3-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067064		X	X			X
14	BT-1-3-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067065		X	X			X
15	BT-1-3-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067066		X	X			X
16	BT-1-5-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067067		X	X			X
17	BT-1-5-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067068		X	X			X
18	BT-1-5-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067069		X	X			X
19	BT-1	Sep 28, 2023		Soil	B23-Se0067070				X	X	
20	BT-2-0-1	Sep 28, 2023		Soil	B23-Se0067071				X		X

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Sample Detail						Sample Comment	Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Eurofins Suite B1	Per- and Polyfluorocarbon Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X	X	X
21	BT-2-0-1	Sep 28, 2023		TOP - Soil	B23-Se0067072		X		X		X
22	BT-2-0-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067073		X	X			X
23	BT-2-0-2	Sep 28, 2023		Soil	B23-Se0067074				X		X
24	BT-2-0-2	Sep 28, 2023		TOP - Soil	B23-Se0067075		X		X		X
25	BT-2-0-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067076		X	X			X
26	BT-2-0-3	Sep 28, 2023		Soil	B23-Se0067077				X		X
27	BT-2-0-3	Sep 28, 2023		TOP - Soil	B23-Se0067078		X		X		X
28	BT-2-0-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067079		X	X			X
29	BT-2-1-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067080		X	X			X
30	BT-2-1-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067081		X	X			X
31	BT-2-1-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067082		X	X			X
32	BT-2-3-1	Sep 28, 2023		AUS Leachate	B23-Se0067083		X	X			X

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Company Name: ADE Consulting Group QLD Address: 10/53 Metroplex Ave Murarrie QLD 4172 Project Name: A103021.1540.00 Project ID: A103021.1540.00	Order No.: Report #: 1030176 Phone: 1300 796 922 Fax:	Received: Sep 28, 2023 3:40 PM Due: Oct 4, 2023 Priority: 3 Day Contact Name: Matthew Toole
Eurofins Analytical Services Manager : Zoe Flynn		

Sample Detail						Sample Comment	Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Eurofins Suite B1	Per- and Polyfluoralkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X	X	X
				- TOP							
33	BT-2-3-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067084		X	X			X
34	BT-2-3-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067085		X	X			X
35	BT-2-5-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067086		X	X			X
36	BT-2-5-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067087		X	X			X
37	BT-2-5-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067088		X	X			X
38	BT-2	Sep 28, 2023		Soil	B23-Se0067089				X	X	
39	BT-3-0-1	Sep 28, 2023		Soil	B23-Se0067090				X		X
40	BT-3-0-1	Sep 28, 2023		TOP - Soil	B23-Se0067091		X		X		X
41	BT-3-0-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067092		X	X			X
42	BT-3-0-2	Sep 28, 2023		Soil	B23-Se0067093				X		X
43	BT-3-0-2	Sep 28, 2023		TOP - Soil	B23-Se0067094		X		X		X

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Sample Detail						Sample Comment	Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Eurofins Suite B1	Per- and Polyfluoralkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X	X	X
44	BT-3-0-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067095		X	X			X
45	BT-3-0-3	Sep 28, 2023		Soil	B23-Se0067096				X		X
46	BT-3-0-3	Sep 28, 2023		TOP - Soil	B23-Se0067097		X		X		X
47	BT-3-0-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067098		X	X			X
48	BT-3-1-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067099		X	X			X
49	BT-3-1-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067100		X	X			X
50	BT-3-1-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067101		X	X			X
51	BT-3-3-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067102		X	X			X
52	BT-3-3-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067103		X	X			X
53	BT-3-3-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067104		X	X			X

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

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

Auckland	Christchurch	Tauranga
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Company Name: ADE Consulting Group QLD
Address: 10/53 Metroplex Ave
Murarrie
QLD 4172

Project Name: A103021.1540.00
Project ID: A103021.1540.00

Order No.:
Report #: 1030176
Phone: 1300 796 922
Fax:

Received: Sep 28, 2023 3:40 PM
Due: Oct 4, 2023
Priority: 3 Day
Contact Name: Matthew Toole

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Sample Comment	Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Eurofins Suite B1	Per- and Polyfluoralkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X	X	X
54	BT-3-5-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067105		X	X			X
55	BT-3-5-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067106		X	X			X
56	BT-3-5-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067107		X	X			X
57	BT-3	Sep 28, 2023		Soil	B23-Se0067108				X	X	
58	BT-4-0-1	Sep 28, 2023		Soil	B23-Se0067109				X		X
59	BT-4-0-1	Sep 28, 2023		TOP - Soil	B23-Se0067110		X		X		X
60	BT-4-0-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067111		X	X			X
61	BT-4-0-2	Sep 28, 2023		Soil	B23-Se0067112				X		X
62	BT-4-0-2	Sep 28, 2023		TOP - Soil	B23-Se0067113		X		X		X
63	BT-4-0-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067114		X	X			X
64	BT-4-0-3	Sep 28, 2023		Soil	B23-Se0067115				X		X
65	BT-4-0-3	Sep 28, 2023		TOP - Soil	B23-Se0067116		X		X		X

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Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X	X	X
66	BT-4-0-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067117		X	X			X
67	BT-4-1-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067118		X	X			X
68	BT-4-1-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067119		X	X			X
69	BT-4-1-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067120		X	X			X
70	BT-4-3-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067121		X	X			X
71	BT-4-3-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067122		X	X			X
72	BT-4-3-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067123		X	X			X
73	BT-4-5-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067124		X	X			X
74	BT-4-5-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067125		X	X			X
75	BT-4-5-3	Sep 28, 2023		AUS Leachate	B23-Se0067126		X	X			X



Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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Sample Detail						Sample Comment	Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X	X	X
				- TOP							
76	BT-4	Sep 28, 2023		Soil	B23-Se0067127				X	X	
Test Counts						1	60	48	28	4	72

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 (<i>bis</i> -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. SVOCs recoveries 20 – 150%

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							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTriDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSA's)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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							
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	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	101			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	100			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	132			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	104			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	117			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	138			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	115			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	139			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	122			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	85			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	141			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	112			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	137			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	100			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	71			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	79			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	126			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	134			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	101			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	84			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	127			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	78			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	110			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	89			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	104			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	100			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	130			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	129			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	52			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	130			50-150	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	119			70-130	Pass	
TRH C10-C14	%	75			70-130	Pass	
LCS - % Recovery							
BTEX							

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzene			%	114			70-130	Pass	
Toluene			%	116			70-130	Pass	
Ethylbenzene			%	112			70-130	Pass	
m&p-Xylenes			%	113			70-130	Pass	
Xylenes - Total*			%	113			70-130	Pass	
LCS - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions									
TRH C6-C10			%	118			70-130	Pass	
LCS - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions									
TRH >C10-C16			%	75			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	N23-Se0056919	NCP	%	94			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	N23-Se0056919	NCP	%	93			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	N23-Se0056919	NCP	%	138			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	N23-Se0056919	NCP	%	113			50-150	Pass	
Perfluorooctanoic acid (PFOA)	N23-Se0056919	NCP	%	118			50-150	Pass	
Perfluorononanoic acid (PFNA)	N23-Se0056919	NCP	%	140			50-150	Pass	
Perfluorodecanoic acid (PFDA)	N23-Se0056919	NCP	%	93			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	N23-Se0056919	NCP	%	128			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	N23-Se0056919	NCP	%	115			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	N23-Se0056919	NCP	%	83			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	N23-Se0056919	NCP	%	54			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	N23-Se0056919	NCP	%	123			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	N23-Se0056919	NCP	%	122			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	N23-Se0056919	NCP	%	71			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	N23-Se0056919	NCP	%	63			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	N23-Se0056919	NCP	%	51			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	N23-Se0056919	NCP	%	142			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	N23-Se0056919	NCP	%	136			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	N23-Se0056919	NCP	%	98			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	N23-Se0056919	NCP	%	84			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	N23-Se0056919	NCP	%	113			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	N23-Se0056919	NCP	%	81			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	N23-Se0056919	NCP	%	100			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroheptanesulfonic acid (PFHpS)	N23-Se0056919	NCP	%	74		50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	N23-Se0056919	NCP	%	106		50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	N23-Se0056919	NCP	%	81		50-150	Pass	
Spike - % Recovery								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	N23-Se0056919	NCP	%	131		50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	N23-Se0056919	NCP	%	108		50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	N23-Se0056919	NCP	%	120		50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	N23-Se0056919	NCP	%	69		50-150	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1				
TRH C6-C9	B23-Se0067070	CP	%	102		70-130	Pass	
TRH C10-C14	B23-Se0067070	CP	%	76		70-130	Pass	
Spike - % Recovery								
BTEX				Result 1				
Benzene	B23-Se0067070	CP	%	98		70-130	Pass	
Toluene	B23-Se0067070	CP	%	100		70-130	Pass	
Ethylbenzene	B23-Se0067070	CP	%	99		70-130	Pass	
m&p-Xylenes	B23-Se0067070	CP	%	99		70-130	Pass	
o-Xylene	B23-Se0067070	CP	%	96		70-130	Pass	
Xylenes - Total*	B23-Se0067070	CP	%	98		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1				
TRH C6-C10	B23-Se0067070	CP	%	108		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1				
TRH >C10-C16	B23-Se0067070	CP	%	76		70-130	Pass	
Spike - % Recovery								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1				
Perfluorobutanoic acid (PFBA)	B23-Se0067093	CP	%	93		50-150	Pass	
Perfluoropentanoic acid (PFPeA)	B23-Se0067093	CP	%	81		50-150	Pass	
Perfluorohexanoic acid (PFHxA)	B23-Se0067093	CP	%	107		50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	B23-Se0067093	CP	%	108		50-150	Pass	
Perfluorooctanoic acid (PFOA)	B23-Se0067093	CP	%	108		50-150	Pass	
Perfluorononanoic acid (PFNA)	B23-Se0067093	CP	%	135		50-150	Pass	
Perfluorodecanoic acid (PFDA)	B23-Se0067093	CP	%	95		50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	B23-Se0067093	CP	%	130		50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	B23-Se0067093	CP	%	108		50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	B23-Se0067093	CP	%	137		50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	B23-Se0067093	CP	%	135		50-150	Pass	
Spike - % Recovery								
Perfluoroalkyl sulfonamido substances				Result 1				
Perfluorooctane sulfonamide (FOSA)	B23-Se0067093	CP	%	78		50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Se0067093	CP	%	133			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Se0067093	CP	%	61			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Se0067093	CP	%	77			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Se0067093	CP	%	123			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Se0067093	CP	%	139			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Se0067093	CP	%	145			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFASs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	B23-Se0067093	CP	%	90			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	B23-Se0067093	CP	%	65			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	B23-Se0067093	CP	%	60			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	B23-Se0067093	CP	%	69			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	B23-Se0067093	CP	%	103			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	B23-Se0067093	CP	%	119			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	B23-Se0067093	CP	%	116			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	B23-Se0067093	CP	%	79			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Se0067093	CP	%	130			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Se0067093	CP	%	68			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Se0067093	CP	%	74			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Se0067093	CP	%	131			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	B23-Se0067094	CP	%	94			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	B23-Se0067094	CP	%	90			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	B23-Se0067094	CP	%	74			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	B23-Se0067094	CP	%	96			50-150	Pass	
Perfluorooctanoic acid (PFOA)	B23-Se0067094	CP	%	124			50-150	Pass	
Perfluorononanoic acid (PFNA)	B23-Se0067094	CP	%	100			50-150	Pass	
Perfluorodecanoic acid (PFDA)	B23-Se0067094	CP	%	116			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	B23-Se0067094	CP	%	138			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	B23-Se0067094	CP	%	87			50-150	Pass	
Perfluorotridecanoic acid (PFTTrDA)	B23-Se0067094	CP	%	91			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorooctane sulfonamide (FOSA)	B23-Se0067094	CP	%	120			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Se0067094	CP	%	119			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Se0067094	CP	%	52			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Se0067094	CP	%	75			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Se0067094	CP	%	77			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Se0067094	CP	%	113			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Se0067094	CP	%	112			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSA's)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	B23-Se0067094	CP	%	92			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	B23-Se0067094	CP	%	68			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	B23-Se0067094	CP	%	137			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	B23-Se0067094	CP	%	73			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	B23-Se0067094	CP	%	96			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	B23-Se0067094	CP	%	64			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	B23-Se0067094	CP	%	107			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	B23-Se0067094	CP	%	69			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Se0067094	CP	%	123			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Se0067094	CP	%	138			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Se0067094	CP	%	59			50-150	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	B23-Se0067055	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	B23-Se0067055	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	B23-Se0067055	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	B23-Se0067055	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	B23-Se0067055	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	B23-Se0067055	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	B23-Se0067055	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	B23-Se0067055	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	B23-Se0067055	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTriDA)	B23-Se0067055	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	B23-Se0067055	CP	ug/kg	< 5	< 5	<1	30%	Pass	

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	B23-Se0067055	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Se0067055	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Se0067055	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Se0067055	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Se0067055	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Se0067055	CP	ug/kg	< 10	< 10	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Se0067055	CP	ug/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFASs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	B23-Se0067055	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	B23-Se0067055	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	B23-Se0067055	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	B23-Se0067055	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	B23-Se0067055	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	B23-Se0067055	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	B23-Se0067055	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Se0067055	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Se0067055	CP	ug/kg	< 10	< 10	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Se0067055	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Se0067055	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	B23-Se0067058	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	B23-Se0067058	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	B23-Se0067058	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	B23-Se0067058	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	B23-Se0067058	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanoic acid (PFNA)	B23-Se0067058	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	B23-Se0067058	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	B23-Se0067058	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	B23-Se0067058	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	B23-Se0067058	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	B23-Se0067058	CP	ug/kg	< 5	< 5	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	B23-Se0067058	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Se0067058	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Se0067058	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Se0067058	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Se0067058	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Se0067058	CP	ug/kg	< 10	< 10	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Se0067058	CP	ug/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFASs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	B23-Se0067058	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	B23-Se0067058	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	B23-Se0067058	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	B23-Se0067058	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	B23-Se0067058	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	B23-Se0067058	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	B23-Se0067058	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Se0067058	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Se0067058	CP	ug/kg	< 10	< 10	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Se0067058	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Se0067058	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	B23-Se0067059	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	B23-Se0067059	CP	ug/kg	< 7	< 7	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	B23-Se0067059	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	B23-Se0067059	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	B23-Se0067059	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanoic acid (PFNA)	B23-Se0067059	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	B23-Se0067059	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	B23-Se0067059	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	B23-Se0067059	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	B23-Se0067059	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	B23-Se0067059	CP	ug/kg	< 5	< 5	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	B23-Se0067059	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Se0067059	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Se0067059	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Se0067059	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Se0067059	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Se0067059	CP	ug/kg	< 10	< 10	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Se0067059	CP	ug/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFASs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	B23-Se0067059	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	B23-Se0067059	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	B23-Se0067059	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	B23-Se0067059	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	B23-Se0067059	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	B23-Se0067059	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	B23-Se0067059	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Se0067059	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Se0067059	CP	ug/kg	< 10	< 10	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Se0067059	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Se0067059	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B23-Se0067074	CP	%	11	12	6.9	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B23-Se0067089	CP	%	11	10	11	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C6-C9	B23-Se0067089	CP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C10-C14	B23-Se0067089	CP	mg/kg	< 20	22	29	30%	Pass
TRH C15-C28	B23-Se0067089	CP	mg/kg	95	130	28	30%	Pass
TRH C29-C36	B23-Se0067089	CP	mg/kg	< 50	57	39	30%	Fail

Duplicate								
BTX				Result 1	Result 2	RPD		
Benzene	B23-Se0067089	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Toluene	B23-Se0067089	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Ethylbenzene	B23-Se0067089	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
m&p-Xylenes	B23-Se0067089	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
o-Xylene	B23-Se0067089	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Xylenes - Total*	B23-Se0067089	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
Naphthalene	B23-Se0067089	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
TRH C6-C10	B23-Se0067089	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
TRH >C10-C16	B23-Se0067089	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	B23-Se0067089	CP	mg/kg	100	140	32	30%	Fail
TRH >C34-C40	B23-Se0067089	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	B23-Se0067091	CP	ug/kg	190	200	4.6	30%	Pass
Perfluoropentanoic acid (PFPeA)	B23-Se0067091	CP	ug/kg	440	460	2.4	30%	Pass
Perfluorohexanoic acid (PFHxA)	B23-Se0067091	CP	ug/kg	420	480	12	30%	Pass
Perfluoroheptanoic acid (PFHpA)	B23-Se0067091	CP	ug/kg	150	150	3.5	30%	Pass
Perfluorooctanoic acid (PFOA)	B23-Se0067091	CP	ug/kg	22	24	8.3	30%	Pass
Perfluorononanoic acid (PFNA)	B23-Se0067091	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	B23-Se0067091	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	B23-Se0067091	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	B23-Se0067091	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	B23-Se0067091	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	B23-Se0067091	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	B23-Se0067091	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Se0067091	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Se0067091	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Se0067091	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Se0067091	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Se0067091	CP	ug/kg	< 10	< 10	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Se0067091	CP	ug/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	B23-Se0067091	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	B23-Se0067091	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	B23-Se0067091	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	B23-Se0067091	CP	ug/kg	< 5	< 5	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonic acids (PFASs)				Result 1	Result 2	RPD		
Perfluorohexanesulfonic acid (PFHxS)	B23-Se0067091	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	B23-Se0067091	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	B23-Se0067091	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Se0067091	CP	ug/kg	15	16	3.5	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Se0067091	CP	ug/kg	3500	3600	4.5	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Se0067091	CP	ug/kg	520	520	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Se0067091	CP	ug/kg	16	16	1.6	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B23-Se0067108	CP	%	24	23	2.1	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.
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.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
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:

Zoe Flynn	Analytical Services Manager
Jonathon Angell	Senior Analyst-Organic
Jonathon Angell	Senior Analyst-PFAS
Jonathon Angell	Senior Analyst-Sample Properties
Jonathon Angell	Senior Analyst-Volatile



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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Site Number 20794

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

Attention: **Matthew Toole**

Report **1030176-L**
Project name **A103021.1540.00**
Project ID **A103021.1540.00**
Received Date **Sep 28, 2023**

Client Sample ID			BT-1-0-1	BT-1-0-2	BT-1-0-3	BT-1-1-1
Sample Matrix			AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP
Eurofins Sample No.			B23-Se0067054	B23-Se0067057	B23-Se0067060	B23-Se0067061
Date Sampled			Sep 28, 2023	Sep 28, 2023	Sep 28, 2023	Sep 28, 2023
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	7.0	7.0	7.0	7.0
pH (off)	0.1	pH Units	10	10	10	11
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	0.16	0.07	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	0.10	0.27	0.14	0.02
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	0.09	0.23	0.13	0.02
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	0.05	0.06	0.04	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	0.02	0.02	0.02	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTeDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	55	63	60	83
13C5-PFPeA (surr.)	1	%	75	54	125	117
13C5-PFHxA (surr.)	1	%	68	78	115	97
13C4-PFHpA (surr.)	1	%	91	60	134	124
13C8-PFOA (surr.)	1	%	93	58	123	116
13C5-PFNA (surr.)	1	%	94	46	121	120
13C6-PFDA (surr.)	1	%	75	25	109	109
13C2-PFUnDA (surr.)	1	%	75	17	113	121
13C2-PFDoDA (surr.)	1	%	62	12	113	116
13C2-PFTeDA (surr.)	1	%	93	10	146	133
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			BT-1-0-1	BT-1-0-2	BT-1-0-3	BT-1-1-1
Sample Matrix			AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP
Eurofins Sample No.			B23-Se0067054	B23-Se0067057	B23-Se0067060	B23-Se0067061
Date Sampled			Sep 28, 2023	Sep 28, 2023	Sep 28, 2023	Sep 28, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	62	18	112	104
D3-N-MeFOSA (surr.)	1	%	40	INT	57	55
D5-N-EtFOSA (surr.)	1	%	51	INT	72	67
D7-N-MeFOSE (surr.)	1	%	76	INT	123	126
D9-N-EtFOSE (surr.)	1	%	56	INT	95	95
D5-N-EtFOSAA (surr.)	1	%	74	12	140	134
D3-N-MeFOSAA (surr.)	1	%	65	17	136	128
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	^{N09} 0.01	0.01	^{N09} 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	^{N09} 0.05	0.08	^{N09} 0.03	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	76	95	112	99
18O2-PFHxS (surr.)	1	%	96	75	122	116
13C8-PFOS (surr.)	1	%	89	41	111	104
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	62	96	65	54
13C2-6:2 FTSA (surr.)	1	%	117	51	194	136
13C2-8:2 FTSA (surr.)	1	%	98	26	80	123
13C2-10:2 FTSA (surr.)	1	%	60	11	63	130
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.06	0.09	0.04	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.07	0.1	0.05	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.08	0.11	0.06	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	0.32	0.83	0.44	0.05
Sum of PFASs (n=30)*	0.1	ug/L	0.32	0.83	0.44	< 0.1

Client Sample ID			G01 BT-1-1-2 AUS Leachate - TOP B23-Se0067062 Sep 28, 2023	BT-1-1-3 AUS Leachate - TOP B23-Se0067063 Sep 28, 2023	BT-1-3-1 AUS Leachate - TOP B23-Se0067064 Sep 28, 2023	BT-1-3-2 AUS Leachate - TOP B23-Se0067065 Sep 28, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	7.0	7.0	7.0	7.0
pH (off)	0.1	pH Units	10	10	10	10
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.5	< 0.05	0.13	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.1	0.02	0.25	0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.1	0.02	0.22	0.02
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.1	< 0.01	0.02	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.1	< 0.01	< 0.01	0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.1	< 0.01	< 0.01	0.03
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.1	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.1	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.1	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTeDA) ^{N15}	0.01	ug/L	< 0.1	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.1	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	103	50	50	89
13C5-PFPeA (surr.)	1	%	139	39	44	106
13C5-PFHxA (surr.)	1	%	75	68	28	189
13C4-PFHpA (surr.)	1	%	76	72	43	183
13C8-PFOA (surr.)	1	%	103	69	55	55
13C5-PFNA (surr.)	1	%	103	60	56	62
13C6-PFDA (surr.)	1	%	68	61	48	51
13C2-PFUnDA (surr.)	1	%	50	52	43	164
13C2-PFDoDA (surr.)	1	%	39	30	27	116
13C2-PFTeDA (surr.)	1	%	58	41	18	155
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.2	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.2	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.2	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.2	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.2	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.2	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.2	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	61	45	56	143
D3-N-MeFOSA (surr.)	1	%	66	12	INT	18
D5-N-EtFOSA (surr.)	1	%	72	13	INT	12
D7-N-MeFOSE (surr.)	1	%	65	21	INT	38
D9-N-EtFOSE (surr.)	1	%	45	20	INT	34
D5-N-EtFOSAA (surr.)	1	%	59	46	36	134
D3-N-MeFOSAA (surr.)	1	%	61	58	45	188

Client Sample ID			G01 BT-1-1-2 AUS Leachate - TOP B23-Se0067062 Sep 28, 2023	BT-1-1-3 AUS Leachate - TOP B23-Se0067063 Sep 28, 2023	BT-1-3-1 AUS Leachate - TOP B23-Se0067064 Sep 28, 2023	BT-1-3-2 AUS Leachate - TOP B23-Se0067065 Sep 28, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.1	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.1	< 0.01	< 0.01	0.13
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.1	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.1	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.1	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.1	< 0.01	< 0.01	0.02
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.1	< 0.01	< 0.01	0.10
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.1	< 0.01	< 0.01	0.08
13C3-PFBS (surr.)	1	%	127	70	32	38
18O2-PFHxS (surr.)	1	%	117	71	55	59
13C8-PFOS (surr.)	1	%	103	66	53	54
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.1	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.5	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.1	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.1	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	85	139	17	INT
13C2-6:2 FTSA (surr.)	1	%	100	96	70	INT
13C2-8:2 FTSA (surr.)	1	%	79	94	44	INT
13C2-10:2 FTSA (surr.)	1	%	69	44	23	108
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.1	< 0.01	< 0.01	0.1
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.1	< 0.01	< 0.01	0.11
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.1	< 0.01	< 0.01	0.11
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.5	< 0.05	0.62	0.14
Sum of PFASs (n=30)*	0.1	ug/L	< 0.5	< 0.1	0.62	0.4

Client Sample ID			G01 BT-1-3-3 AUS Leachate - TOP B23-Se0067066 Sep 28, 2023	BT-1-5-1 AUS Leachate - TOP B23-Se0067067 Sep 28, 2023	G01 BT-1-5-2 AUS Leachate - TOP B23-Se0067068 Sep 28, 2023	G01 BT-1-5-3 AUS Leachate - TOP B23-Se0067069 Sep 28, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	7.0	7.0	7.0	7.0
pH (off)	0.1	pH Units	10	10	10	10
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.5	< 0.05	< 0.5	< 0.5
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.1	0.01	< 0.1	< 0.1
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.1	0.01	< 0.1	< 0.1
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.1	< 0.01	< 0.1	< 0.1
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.1	< 0.01	< 0.1	< 0.1

Client Sample ID			G01 BT-1-3-3 AUS Leachate - TOP B23-Se0067066 Sep 28, 2023	BT-1-5-1 AUS Leachate - TOP B23-Se0067067 Sep 28, 2023	G01 BT-1-5-2 AUS Leachate - TOP B23-Se0067068 Sep 28, 2023	G01 BT-1-5-3 AUS Leachate - TOP B23-Se0067069 Sep 28, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.1	< 0.01	< 0.1	< 0.1
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	0.23	0.02	< 0.1	< 0.1
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	0.34	0.03	< 0.1	< 0.1
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	0.15	0.03	< 0.1	< 0.1
Perfluorotridecanoic acid (PFTrDA) ^{N15}	0.01	ug/L	0.10	< 0.01	< 0.1	< 0.1
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.1	< 0.01	< 0.1	< 0.1
13C4-PFBA (surr.)	1	%	129	54	115	104
13C5-PFPeA (surr.)	1	%	151	61	122	119
13C5-PFHxA (surr.)	1	%	96	98	95	74
13C4-PFHpA (surr.)	1	%	96	94	88	60
13C8-PFOA (surr.)	1	%	129	85	115	104
13C5-PFNA (surr.)	1	%	129	65	115	104
13C6-PFDA (surr.)	1	%	107	50	86	51
13C2-PFUnDA (surr.)	1	%	89	38	77	50
13C2-PFDoDA (surr.)	1	%	90	25	60	49
13C2-PFTeDA (surr.)	1	%	36	37	22	58
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.2	< 0.05	< 0.2	< 0.2
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.2	< 0.05	< 0.2	< 0.2
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.2	< 0.05	< 0.2	< 0.2
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.2	< 0.05	< 0.2	< 0.2
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.2	< 0.05	< 0.2	< 0.2
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.2	< 0.05	< 0.2	< 0.2
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.2	< 0.05	< 0.2	< 0.2
13C8-FOSA (surr.)	1	%	81	49	81	48
D3-N-MeFOSA (surr.)	1	%	109	INT	77	64
D5-N-EtFOSA (surr.)	1	%	133	INT	104	78
D7-N-MeFOSE (surr.)	1	%	72	14	58	61
D9-N-EtFOSE (surr.)	1	%	66	13	63	29
D5-N-EtFOSAA (surr.)	1	%	100	37	71	62
D3-N-MeFOSAA (surr.)	1	%	97	48	81	68
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.1	< 0.01	< 0.1	< 0.1
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	0.21	0.01	< 0.1	< 0.1
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.1	< 0.01	< 0.1	< 0.1
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.1	< 0.01	< 0.1	< 0.1
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.1	< 0.01	< 0.1	< 0.1
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.1	< 0.01	< 0.1	< 0.1
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	^{N09} 0.17	0.02	< 0.1	< 0.1
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	0.11	< 0.01	< 0.1	< 0.1
13C3-PFBS (surr.)	1	%	135	102	132	122
18O2-PFHxS (surr.)	1	%	130	95	122	111
13C8-PFOS (surr.)	1	%	129	67	115	104

Client Sample ID			G01 BT-1-3-3 AUS Leachate - TOP B23-Se0067066 Sep 28, 2023	BT-1-5-1 AUS Leachate - TOP B23-Se0067067 Sep 28, 2023	G01 BT-1-5-2 AUS Leachate - TOP B23-Se0067068 Sep 28, 2023	G01 BT-1-5-3 AUS Leachate - TOP B23-Se0067069 Sep 28, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.1	< 0.01	< 0.1	< 0.1
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.5	< 0.05	< 0.5	< 0.5
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.1	< 0.01	< 0.1	< 0.1
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.1	< 0.01	< 0.1	< 0.1
13C2-4:2 FTSA (surr.)	1	%	117	INT	103	76
13C2-6:2 FTSA (surr.)	1	%	112	123	101	95
13C2-8:2 FTSA (surr.)	1	%	144	67	106	64
13C2-10:2 FTSA (surr.)	1	%	128	39	82	91
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.17	0.02	< 0.1	< 0.1
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.17	0.02	< 0.1	< 0.1
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.17	0.02	< 0.1	< 0.1
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.5	< 0.05	< 0.5	< 0.5
Sum of PFASs (n=30)*	0.1	ug/L	1.31	0.13	< 0.5	< 0.5

Client Sample ID			BT-2-0-1 AUS Leachate - TOP B23-Se0067073 Sep 28, 2023	BT-2-0-2 AUS Leachate - TOP B23-Se0067076 Sep 28, 2023	BT-2-0-3 AUS Leachate - TOP B23-Se0067079 Sep 28, 2023	BT-2-1-1 AUS Leachate - TOP B23-Se0067080 Sep 28, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	7.0	7.0	7.0	7.0
pH (off)	0.1	pH Units	6.6	6.2	6.6	6.9
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	19	9.6	12	3.8
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	36	19	20	6.7
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	25	16	16	5.4
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	40	19	20	7.1
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	22	7.0	8.8	2.9
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	2.1	1.0	0.96	0.42
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	0.06	0.03	0.03	0.03
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	0.03	0.02	0.01	0.02
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	0.02	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	49	112	84	43
13C5-PFPeA (surr.)	1	%	78	138	45	33
13C5-PFHxA (surr.)	1	%	97	132	79	38
13C4-PFHpA (surr.)	1	%	119	119	54	58
13C8-PFOA (surr.)	1	%	75	125	63	65
13C5-PFNA (surr.)	1	%	68	85	60	74

Client Sample ID			BT-2-0-1	BT-2-0-2	BT-2-0-3	BT-2-1-1
Sample Matrix			AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP
Eurofins Sample No.			B23-Se0067073	B23-Se0067076	B23-Se0067079	B23-Se0067080
Date Sampled			Sep 28, 2023	Sep 28, 2023	Sep 28, 2023	Sep 28, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C6-PFDA (surr.)	1	%	91	89	61	77
13C2-PFUnDA (surr.)	1	%	120	110	73	95
13C2-PFDoDA (surr.)	1	%	85	86	65	80
13C2-PFTeDA (surr.)	1	%	53	108	75	90
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	105	95	83	79
D3-N-MeFOSA (surr.)	1	%	22	56	71	29
D5-N-EtFOSA (surr.)	1	%	15	64	64	29
D7-N-MeFOSE (surr.)	1	%	85	111	67	35
D9-N-EtFOSE (surr.)	1	%	55	83	65	36
D5-N-EtFOSAA (surr.)	1	%	149	116	63	107
D3-N-MeFOSAA (surr.)	1	%	82	104	71	102
Perfluoroalkyl sulfonic acids (PFSA's)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	0.02	0.02	0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	0.02	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	0.07	0.02	0.05	0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	0.22	^{N09} 0.18	0.22	0.03
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	0.12	^{N09} 0.07	0.10	0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	4.5	^{N09} 1.9	2.7	1.1
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	90	57	82	44
18O2-PFHxS (surr.)	1	%	84	94	71	75
13C8-PFOS (surr.)	1	%	98	79	69	75
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	0.03	0.02	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	INT	47	155	41
13C2-6:2 FTSA (surr.)	1	%	100	99	75	116
13C2-8:2 FTSA (surr.)	1	%	111	104	76	132
13C2-10:2 FTSA (surr.)	1	%	52	111	62	116

Client Sample ID			BT-2-0-1	BT-2-0-2	BT-2-0-3	BT-2-1-1
Sample Matrix			AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP
Eurofins Sample No.			B23-Se0067073	B23-Se0067076	B23-Se0067079	B23-Se0067080
Date Sampled			Sep 28, 2023	Sep 28, 2023	Sep 28, 2023	Sep 28, 2023
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	4.72	2.08	2.92	1.13
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	26.5	8.9	11.5	4
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	26.72	9.08	11.72	4.03
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	146.77	72.72	79.73	27.03
Sum of PFASs (n=30)*	0.1	ug/L	149.19	73.86	80.88	27.52

Client Sample ID			G01 BT-2-1-2	BT-2-1-3	BT-2-3-1	BT-2-3-2
Sample Matrix			AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP
Eurofins Sample No.			B23-Se0067081	B23-Se0067082	B23-Se0067083	B23-Se0067084
Date Sampled			Sep 28, 2023	Sep 28, 2023	Sep 28, 2023	Sep 28, 2023
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	7.0	7.0	7.0	7.0
pH (off)	0.1	pH Units	5.9	6.7	7.0	7.3
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.5	2.2	1.2	1.2
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	6.2	4.8	2.2	2.4
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	8.2	4.8	2.4	2.1
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	16	6.5	2.7	2.8
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	3.5	2.4	1.7	1.6
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	1.0	0.50	0.21	0.19
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.1	< 0.01	0.03	0.02
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.1	0.02	0.02	0.02
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.1	< 0.01	0.01	0.02
Perfluorotridecanoic acid (PFTeDA) ^{N15}	0.01	ug/L	< 0.1	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.2	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	118	68	122	101
13C5-PFPeA (surr.)	1	%	Q0948	78	77	55
13C5-PFHxA (surr.)	1	%	75	75	61	95
13C4-PFHpA (surr.)	1	%	80	68	87	72
13C8-PFOA (surr.)	1	%	118	78	62	56
13C5-PFNA (surr.)	1	%	118	63	85	75
13C6-PFDA (surr.)	1	%	105	52	87	76
13C2-PFUnDA (surr.)	1	%	105	50	82	64
13C2-PFDoDA (surr.)	1	%	105	38	73	61
13C2-PFTeDA (surr.)	1	%	INT	29	77	67
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.2	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.2	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.2	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.2	< 0.05	< 0.05	< 0.05

Client Sample ID			G01 BT-2-1-2 AUS Leachate - TOP B23-Se0067081 Sep 28, 2023	BT-2-1-3 AUS Leachate - TOP B23-Se0067082 Sep 28, 2023	BT-2-3-1 AUS Leachate - TOP B23-Se0067083 Sep 28, 2023	BT-2-3-2 AUS Leachate - TOP B23-Se0067084 Sep 28, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.2	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.2	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.2	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	98	39	79	82
D3-N-MeFOSA (surr.)	1	%	168	28	52	69
D5-N-EtFOSA (surr.)	1	%	INT	29	50	58
D7-N-MeFOSE (surr.)	1	%	96	52	67	82
D9-N-EtFOSE (surr.)	1	%	88	39	55	71
D5-N-EtFOSAA (surr.)	1	%	103	53	80	66
D3-N-MeFOSAA (surr.)	1	%	111	45	83	81
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.1	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.1	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.1	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	^{N09} < 0.1	^{N09} 0.02	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.1	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	^{N09} 0.66	^{N09} 0.46	0.04	0.04
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.1	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	124	71	79	65
18O2-PFHxS (surr.)	1	%	130	56	91	84
13C8-PFOS (surr.)	1	%	118	46	90	89
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.1	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.5	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.1	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.1	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	79	60	INT	130
13C2-6:2 FTSA (surr.)	1	%	110	68	115	104
13C2-8:2 FTSA (surr.)	1	%	102	54	101	88
13C2-10:2 FTSA (surr.)	1	%	181	44	83	88
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.66	0.48	0.04	0.04
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	4.16	2.86	1.74	1.64
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	4.16	2.88	1.74	1.64
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	34.56	21.18	10.24	10.14
Sum of PFASs (n=30)*	0.1	ug/L	35.56	21.7	10.51	10.39

Client Sample ID			BT-2-3-3 AUS Leachate - TOP B23-Se0067085 Sep 28, 2023	BT-2-5-1 AUS Leachate - TOP B23-Se0067086 Sep 28, 2023	BT-2-5-2 AUS Leachate - TOP B23-Se0067087 Sep 28, 2023	BT-2-5-3 AUS Leachate - TOP B23-Se0067088 Sep 28, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	7.0	7.0	7.0	7.0
pH (off)	0.1	pH Units	6.9	7.2	7.3	7.2
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	0.94	1.2	1.4	2.7
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	2.1	2.0	2.4	3.5
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	2.3	2.3	2.3	3.2
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	2.8	2.8	3.4	4.9
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	1.3	1.8	2.0	2.1
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	0.22	0.23	0.26	0.36
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	0.03	0.03	0.03	0.05
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	0.02	0.01	0.02	0.03
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	0.01	0.01	0.02
Perfluorotridecanoic acid (PFTeDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	69	142	113	21
13C5-PFPeA (surr.)	1	%	96	95	69	28
13C5-PFHxA (surr.)	1	%	86	61	107	51
13C4-PFHpA (surr.)	1	%	137	105	78	72
13C8-PFOA (surr.)	1	%	99	72	53	96
13C5-PFNA (surr.)	1	%	112	94	75	94
13C6-PFDA (surr.)	1	%	110	110	91	123
13C2-PFUnDA (surr.)	1	%	124	110	81	132
13C2-PFDoDA (surr.)	1	%	109	95	66	123
13C2-PFTeDA (surr.)	1	%	138	93	52	145
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	104	85	84	145
D3-N-MeFOSA (surr.)	1	%	59	34	61	168
D5-N-EtFOSA (surr.)	1	%	61	32	49	167
D7-N-MeFOSE (surr.)	1	%	123	67	69	94
D9-N-EtFOSE (surr.)	1	%	88	57	61	95
D5-N-EtFOSAA (surr.)	1	%	126	104	72	143
D3-N-MeFOSAA (surr.)	1	%	122	118	84	161

Client Sample ID			BT-2-3-3 AUS Leachate - TOP B23-Se0067085 Sep 28, 2023	BT-2-5-1 AUS Leachate - TOP B23-Se0067086 Sep 28, 2023	BT-2-5-2 AUS Leachate - TOP B23-Se0067087 Sep 28, 2023	BT-2-5-3 AUS Leachate - TOP B23-Se0067088 Sep 28, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	^{N09} 0.03	0.03	0.03	0.05
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	99	81	105	57
18O2-PFHxS (surr.)	1	%	112	110	89	92
13C8-PFOS (surr.)	1	%	104	113	107	116
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	53	INT	142	60
13C2-6:2 FTSA (surr.)	1	%	139	125	72	80
13C2-8:2 FTSA (surr.)	1	%	113	92	86	85
13C2-10:2 FTSA (surr.)	1	%	117	72	86	72
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.03	0.03	0.03	0.05
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	1.33	1.83	2.03	2.15
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	1.33	1.83	2.03	2.15
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	9.47	10.13	11.53	16.45
Sum of PFASs (n=30)*	0.1	ug/L	9.74	10.41	11.85	16.91

Client Sample ID			BT-3-0-1 AUS Leachate - TOP B23-Se0067092 Sep 28, 2023	BT-3-0-2 AUS Leachate - TOP B23-Se0067095 Sep 28, 2023	BT-3-0-3 AUS Leachate - TOP B23-Se0067098 Sep 28, 2023	BT-3-1-1 AUS Leachate - TOP B23-Se0067099 Sep 28, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	7.0	7.0	7.0	7.0
pH (off)	0.1	pH Units	2.7	2.5	2.5	2.7
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	45	25	22	10
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	110	89	120	23
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	45	37	35	9.7
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	13	11	15	2.5
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	3.6	2.1	2.3	0.62

Client Sample ID			BT-3-0-1	BT-3-0-2	BT-3-0-3	BT-3-1-1
Sample Matrix			AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP
Eurofins Sample No.			B23-Se0067092	B23-Se0067095	B23-Se0067098	B23-Se0067099
Date Sampled			Sep 28, 2023	Sep 28, 2023	Sep 28, 2023	Sep 28, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	0.25	0.22	0.33	0.13
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	0.02	0.02	0.02	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	0.02	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	62	70	38	104
13C5-PFPeA (surr.)	1	%	41	98	54	59
13C5-PFHxA (surr.)	1	%	92	125	143	112
13C4-PFHpA (surr.)	1	%	54	127	107	93
13C8-PFOA (surr.)	1	%	48	86	143	73
13C5-PFNA (surr.)	1	%	48	113	139	77
13C6-PFDA (surr.)	1	%	34	110	146	70
13C2-PFUnDA (surr.)	1	%	29	129	146	74
13C2-PFDoDA (surr.)	1	%	19	107	139	54
13C2-PFTeDA (surr.)	1	%	17	131	129	56
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	11	119	145	84
D3-N-MeFOSA (surr.)	1	%	INT	70	86	67
D5-N-EtFOSA (surr.)	1	%	INT	81	98	63
D7-N-MeFOSE (surr.)	1	%	INT	141	143	75
D9-N-EtFOSE (surr.)	1	%	INT	108	106	68
D5-N-EtFOSAA (surr.)	1	%	22	124	157	71
D3-N-MeFOSAA (surr.)	1	%	27	122	146	76
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	0.01	0.02	0.02	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	0.03	0.04	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	0.10	0.06	0.06	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	0.01	^{N09} 0.01	^{N09} 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	0.07	^{N09} 0.04	^{N09} 0.05	0.03
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	59	54	57	117
18O2-PFHxS (surr.)	1	%	55	115	128	96
13C8-PFOS (surr.)	1	%	52	109	135	87

Client Sample ID			BT-3-0-1	BT-3-0-2	BT-3-0-3	BT-3-1-1
Sample Matrix			AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP
Eurofins Sample No.			B23-Se0067092	B23-Se0067095	B23-Se0067098	B23-Se0067099
Date Sampled			Sep 28, 2023	Sep 28, 2023	Sep 28, 2023	Sep 28, 2023
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	141	42	66	146
13C2-6:2 FTSA (surr.)	1	%	77	127	136	109
13C2-8:2 FTSA (surr.)	1	%	39	116	187	94
13C2-10:2 FTSA (surr.)	1	%	18	98	140	73
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.08	0.05	0.06	0.03
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	3.67	2.14	2.35	0.65
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	3.68	2.15	2.36	0.65
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	216.69	164.18	194.38	45.85
Sum of PFASs (n=30)*	0.1	ug/L	217.06	164.54	194.83	45.98

Client Sample ID			BT-3-1-2	BT-3-1-3	BT-3-3-1	BT-3-3-2
Sample Matrix			AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP
Eurofins Sample No.			B23-Se0067100	B23-Se0067101	B23-Se0067102	B23-Se0067103
Date Sampled			Sep 28, 2023	Sep 28, 2023	Sep 28, 2023	Sep 28, 2023
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	7.0	7.0	7.0	7.0
pH (off)	0.1	pH Units	2.6	2.6	2.6	2.6
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	14	13	Q095.2	6.1
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	34	24	8.4	11
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	14	15	3.7	4.3
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	3.1	3.6	0.80	1.0
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	0.80	0.86	0.22	0.34
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	0.11	0.14	0.06	0.08
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	78	87	16	100
13C5-PFPeA (surr.)	1	%	38	67	111	133
13C5-PFHxA (surr.)	1	%	77	74	148	140
13C4-PFHpA (surr.)	1	%	62	54	115	90
13C8-PFOA (surr.)	1	%	57	52	142	99
13C5-PFNA (surr.)	1	%	70	57	144	103

Client Sample ID			BT-3-1-2 AUS Leachate - TOP B23- Se0067100 Sep 28, 2023	BT-3-1-3 AUS Leachate - TOP B23- Se0067101 Sep 28, 2023	BT-3-3-1 AUS Leachate - TOP B23- Se0067102 Sep 28, 2023	BT-3-3-2 AUS Leachate - TOP B23- Se0067103 Sep 28, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C6-PFDA (surr.)	1	%	53	53	140	98
13C2-PFUnDA (surr.)	1	%	50	48	141	105
13C2-PFDoDA (surr.)	1	%	44	32	123	87
13C2-PFTeDA (surr.)	1	%	64	36	126	111
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	44	35	128	95
D3-N-MeFOSA (surr.)	1	%	INT	INT	82	51
D5-N-EtFOSA (surr.)	1	%	INT	INT	91	58
D7-N-MeFOSE (surr.)	1	%	36	11	126	101
D9-N-EtFOSE (surr.)	1	%	32	14	95	67
D5-N-EtFOSAA (surr.)	1	%	46	40	144	103
D3-N-MeFOSAA (surr.)	1	%	54	52	144	97
Perfluoroalkyl sulfonic acids (PFSA's)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	0.02	0.02	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	82	91	86	77
18O2-PFHxS (surr.)	1	%	71	79	124	106
13C8-PFOS (surr.)	1	%	69	70	124	97
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	62	109	86	61
13C2-6:2 FTSA (surr.)	1	%	55	55	194	134
13C2-8:2 FTSA (surr.)	1	%	45	47	126	120
13C2-10:2 FTSA (surr.)	1	%	37	34	142	100

Client Sample ID			BT-3-1-2	BT-3-1-3	BT-3-3-1	BT-3-3-2
Sample Matrix			AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP
Eurofins Sample No.			B23-Se0067100	B23-Se0067101	B23-Se0067102	B23-Se0067103
Date Sampled			Sep 28, 2023	Sep 28, 2023	Sep 28, 2023	Sep 28, 2023
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.02	0.02	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.82	0.88	0.22	0.34
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.82	0.88	0.22	0.34
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	65.92	56.48	18.32	22.74
Sum of PFASs (n=30)*	0.1	ug/L	66.03	56.63	18.38	22.82

Client Sample ID			BT-3-3-3	BT-3-5-1	BT-3-5-2	BT-3-5-3
Sample Matrix			AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP
Eurofins Sample No.			B23-Se0067104	B23-Se0067105	B23-Se0067106	B23-Se0067107
Date Sampled			Sep 28, 2023	Sep 28, 2023	Sep 28, 2023	Sep 28, 2023
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	7.0	7.0	7.0	7.0
pH (off)	0.1	pH Units	2.7	2.7	2.7	2.6
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	6.3	5.4	4.4	4.4
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	11	4.2	3.5	5.2
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	3.7	1.0	1.2	1.3
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	0.78	0.21	0.31	0.23
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	0.18	0.05	0.08	0.07
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	0.04	0.01	0.02	0.02
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTeDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	95	75	62	76
13C5-PFPeA (surr.)	1	%	68	72	141	56
13C5-PFHxA (surr.)	1	%	116	100	98	69
13C4-PFHpA (surr.)	1	%	61	128	136	75
13C8-PFOA (surr.)	1	%	69	145	114	76
13C5-PFNA (surr.)	1	%	65	103	110	68
13C6-PFDA (surr.)	1	%	57	134	102	52
13C2-PFUnDA (surr.)	1	%	59	126	120	56
13C2-PFDoDA (surr.)	1	%	41	90	90	41
13C2-PFTeDA (surr.)	1	%	36	92	119	55
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			BT-3-3-3	BT-3-5-1	BT-3-5-2	BT-3-5-3
Sample Matrix			AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP
Eurofins Sample No.			B23-Se0067104	B23-Se0067105	B23-Se0067106	B23-Se0067107
Date Sampled			Sep 28, 2023	Sep 28, 2023	Sep 28, 2023	Sep 28, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	66	125	111	60
D3-N-MeFOSA (surr.)	1	%	45	51	61	15
D5-N-EtFOSA (surr.)	1	%	42	46	68	17
D7-N-MeFOSE (surr.)	1	%	58	71	121	40
D9-N-EtFOSE (surr.)	1	%	51	61	88	37
D5-N-EtFOSAA (surr.)	1	%	53	133	119	52
D3-N-MeFOSAA (surr.)	1	%	63	141	111	56
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	61	109	108	93
18O2-PFHxS (surr.)	1	%	83	134	118	92
13C8-PFOS (surr.)	1	%	74	125	109	76
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	153	INT	57	149
13C2-6:2 FTSA (surr.)	1	%	85	104	127	98
13C2-8:2 FTSA (surr.)	1	%	73	90	116	62
13C2-10:2 FTSA (surr.)	1	%	60	163	85	51
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.18	0.05	0.08	0.07
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.18	0.05	0.08	0.07
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	21.96	10.86	9.49	11.2
Sum of PFASs (n=30)*	0.1	ug/L	22	10.87	9.51	11.22

Client Sample ID			BT-4-0-1	BT-4-0-2	BT-4-0-3	BT-4-1-1
Sample Matrix			AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP
Eurofins Sample No.			B23-Se0067111	B23-Se0067114	B23-Se0067117	B23-Se0067118
Date Sampled			Sep 28, 2023	Sep 28, 2023	Sep 28, 2023	Sep 28, 2023
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	7.0	7.0	7.0	7.0
pH (off)	0.1	pH Units	9.6	9.4	9.9	10
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	0.22	0.11	0.23	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	0.30	0.17	0.33	0.02
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	1.3	0.69	1.2	0.03
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	0.25	0.14	0.21	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	0.35	0.17	0.26	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	0.02	0.01	0.02	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	0.01	< 0.01	0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTeDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	74	100	54	74
13C5-PFPeA (surr.)	1	%	79	74	49	117
13C5-PFHxA (surr.)	1	%	83	110	49	94
13C4-PFHpA (surr.)	1	%	97	105	96	116
13C8-PFOA (surr.)	1	%	100	105	106	101
13C5-PFNA (surr.)	1	%	104	92	133	98
13C6-PFDA (surr.)	1	%	103	90	109	93
13C2-PFUnDA (surr.)	1	%	111	83	105	99
13C2-PFDoDA (surr.)	1	%	95	63	142	77
13C2-PFTeDA (surr.)	1	%	91	108	149	112
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	62	53	135	90
D3-N-MeFOSA (surr.)	1	%	INT	INT	147	55
D5-N-EtFOSA (surr.)	1	%	INT	INT	134	55
D7-N-MeFOSE (surr.)	1	%	33	30	119	107
D9-N-EtFOSE (surr.)	1	%	22	25	121	82
D5-N-EtFOSAA (surr.)	1	%	123	66	92	101
D3-N-MeFOSAA (surr.)	1	%	138	81	100	92

Client Sample ID			BT-4-0-1	BT-4-0-2	BT-4-0-3	BT-4-1-1
Sample Matrix			AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP
Eurofins Sample No.			B23-Se0067111	B23-Se0067114	B23-Se0067117	B23-Se0067118
Date Sampled			Sep 28, 2023	Sep 28, 2023	Sep 28, 2023	Sep 28, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	0.03	0.02	0.03	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	0.02	0.01	0.02	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	0.04	0.02	0.06	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	0.37	0.21	0.28	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	0.04	0.02	0.04	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	6.9	3.4	5.4	^{N09} 0.04
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	95	121	57	100
18O2-PFHxS (surr.)	1	%	112	112	102	102
13C8-PFOS (surr.)	1	%	103	89	110	100
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	INT	INT	52	49
13C2-6:2 FTSA (surr.)	1	%	140	99	95	83
13C2-8:2 FTSA (surr.)	1	%	113	90	100	87
13C2-10:2 FTSA (surr.)	1	%	66	44	80	53
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	7.27	3.61	5.68	0.04
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	7.25	3.57	5.66	0.04
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	7.62	3.78	5.94	0.04
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	9.72	4.91	7.94	0.09
Sum of PFASs (n=30)*	0.1	ug/L	9.86	4.97	8.09	< 0.1

Client Sample ID			BT-4-1-2	BT-4-1-3	BT-4-3-1	BT-4-3-2
Sample Matrix			AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP
Eurofins Sample No.			B23-Se0067119	B23-Se0067120	B23-Se0067121	B23-Se0067122
Date Sampled			Sep 28, 2023	Sep 28, 2023	Sep 28, 2023	Sep 28, 2023
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	7.0	7.0	7.0	7.0
pH (off)	0.1	pH Units	10	10	9.5	9.8
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	0.01	0.02	0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	0.02	0.03	0.02	0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			BT-4-1-2 AUS Leachate - TOP B23- Se0067119 Sep 28, 2023	BT-4-1-3 AUS Leachate - TOP B23- Se0067120 Sep 28, 2023	BT-4-3-1 AUS Leachate - TOP B23- Se0067121 Sep 28, 2023	BT-4-3-2 AUS Leachate - TOP B23- Se0067122 Sep 28, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	61	79	54	62
13C5-PFPeA (surr.)	1	%	62	71	61	68
13C5-PFHxA (surr.)	1	%	89	116	80	103
13C4-PFHpA (surr.)	1	%	71	117	69	96
13C8-PFOA (surr.)	1	%	83	107	73	105
13C5-PFNA (surr.)	1	%	81	111	82	89
13C6-PFDA (surr.)	1	%	66	104	85	94
13C2-PFUnDA (surr.)	1	%	59	82	81	90
13C2-PFDoDA (surr.)	1	%	46	68	73	81
13C2-PFTeDA (surr.)	1	%	29	49	62	82
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	82	76	69	105
D3-N-MeFOSA (surr.)	1	%	48	38	27	61
D5-N-EtFOSA (surr.)	1	%	44	31	22	52
D7-N-MeFOSE (surr.)	1	%	93	84	50	62
D9-N-EtFOSE (surr.)	1	%	70	63	52	59
D5-N-EtFOSAA (surr.)	1	%	58	61	62	95
D3-N-MeFOSAA (surr.)	1	%	69	77	81	118
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	0.03	0.08	0.02	0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	98	121	95	102
18O2-PFHxS (surr.)	1	%	91	120	76	110
13C8-PFOS (surr.)	1	%	90	125	94	107

Client Sample ID			BT-4-1-2	BT-4-1-3	BT-4-3-1	BT-4-3-2
Sample Matrix			AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP
Eurofins Sample No.			B23-Se0067119	B23-Se0067120	B23-Se0067121	B23-Se0067122
Date Sampled			Sep 28, 2023	Sep 28, 2023	Sep 28, 2023	Sep 28, 2023
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	106	INT	132	191
13C2-6:2 FTSA (surr.)	1	%	73	112	92	76
13C2-8:2 FTSA (surr.)	1	%	63	94	97	56
13C2-10:2 FTSA (surr.)	1	%	46	98	85	39
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.03	0.08	0.02	0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.03	0.08	0.02	0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.03	0.08	0.02	0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	0.06	0.13	0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	0.13	< 0.1	< 0.1

Client Sample ID			BT-4-3-3	BT-4-5-1	BT-4-5-2	BT-4-5-3
Sample Matrix			AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP
Eurofins Sample No.			B23-Se0067123	B23-Se0067124	B23-Se0067125	B23-Se0067126
Date Sampled			Sep 28, 2023	Sep 28, 2023	Sep 28, 2023	Sep 28, 2023
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	7.0	7.0	7.0	7.0
pH (off)	0.1	pH Units	10.0	10	9.5	10
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	2.4	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	1.1	< 0.01	0.05	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	0.09	0.01	< 0.01	0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	INT	96	82	71
13C5-PFPeA (surr.)	1	%	INT	97	60	95
13C5-PFHxA (surr.)	1	%	41	119	63	88
13C4-PFHpA (surr.)	1	%	120	111	67	100
13C8-PFOA (surr.)	1	%	134	119	72	90
13C5-PFNA (surr.)	1	%	131	125	76	96

Client Sample ID			BT-4-3-3	BT-4-5-1	BT-4-5-2	BT-4-5-3
Sample Matrix			AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP
Eurofins Sample No.			B23-Se0067123	B23-Se0067124	B23-Se0067125	B23-Se0067126
Date Sampled			Sep 28, 2023	Sep 28, 2023	Sep 28, 2023	Sep 28, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C6-PFDA (surr.)	1	%	95	126	73	93
13C2-PFUnDA (surr.)	1	%	86	121	64	96
13C2-PFDoDA (surr.)	1	%	139	118	52	74
13C2-PFTeDA (surr.)	1	%	144	116	57	89
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	117	142	72	82
D3-N-MeFOSA (surr.)	1	%	119	72	49	51
D5-N-EtFOSA (surr.)	1	%	121	70	41	47
D7-N-MeFOSE (surr.)	1	%	98	104	61	86
D9-N-EtFOSE (surr.)	1	%	100	90	54	66
D5-N-EtFOSAA (surr.)	1	%	79	135	67	94
D3-N-MeFOSAA (surr.)	1	%	95	133	77	91
Perfluoroalkyl sulfonic acids (PFSA's)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	0.02	0.03	0.01	^{N09} 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	49	117	78	91
18O2-PFHxS (surr.)	1	%	108	114	79	102
13C8-PFOS (surr.)	1	%	132	131	95	91
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	62	103	INT	58
13C2-6:2 FTSA (surr.)	1	%	127	96	136	102
13C2-8:2 FTSA (surr.)	1	%	101	85	88	92
13C2-10:2 FTSA (surr.)	1	%	84	77	127	82

Client Sample ID			BT-4-3-3	BT-4-5-1	BT-4-5-2	BT-4-5-3
Sample Matrix			AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP
Eurofins Sample No.			B23-Se0067123	B23-Se0067124	B23-Se0067125	B23-Se0067126
Date Sampled			Sep 28, 2023	Sep 28, 2023	Sep 28, 2023	Sep 28, 2023
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.02	0.03	0.01	0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.02	0.03	0.01	0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.02	0.03	0.01	0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	3.61	< 0.05	0.06	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	3.61	< 0.1	< 0.1	< 0.1

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
AUS Leaching Procedure	Brisbane	Oct 04, 2023	7 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Brisbane	Oct 04, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Brisbane	Oct 04, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Brisbane	Oct 04, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Brisbane	Oct 04, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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

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

Auckland	Christchurch	Tauranga
35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

Company Name: ADE Consulting Group QLD Address: 10/53 Metroplex Ave Murarrie QLD 4172 Project Name: A103021.1540.00 Project ID: A103021.1540.00	Order No.: Report #: 1030176 Phone: 1300 796 922 Fax:	Received: Sep 28, 2023 3:40 PM Due: Oct 4, 2023 Priority: 3 Day Contact Name: Matthew Toole
Eurofins Analytical Services Manager : Zoe Flynn		

Sample Detail						Sample Comment	Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Eurofins Suite B1	Per- and Polyfluoralkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X	X	X
External Laboratory											
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID						
1	BT-1-0-1	Sep 28, 2023		Soil	B23-Se0067052	X			X		X
2	BT-1-0-1	Sep 28, 2023		TOP - Soil	B23-Se0067053		X		X		X
3	BT-1-0-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067054		X	X			X
4	BT-1-0-2	Sep 28, 2023		Soil	B23-Se0067055				X		X
5	BT-1-0-2	Sep 28, 2023		TOP - Soil	B23-Se0067056		X		X		X
6	BT-1-0-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067057		X	X			X
7	BT-1-0-3	Sep 28, 2023		Soil	B23-Se0067058				X		X
8	BT-1-0-3	Sep 28, 2023		TOP - Soil	B23-Se0067059		X		X		X
9	BT-1-0-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067060		X	X			X
10	BT-1-1-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067061		X	X			X

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

Perth
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Auckland	Christchurch	Tauranga
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Company Name: ADE Consulting Group QLD
Address: 10/53 Metroplex Ave
Murarrie
QLD 4172

Project Name: A103021.1540.00
Project ID: A103021.1540.00

Order No.:
Report #: 1030176
Phone: 1300 796 922
Fax:

Received: Sep 28, 2023 3:40 PM
Due: Oct 4, 2023
Priority: 3 Day
Contact Name: Matthew Toole

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Sample Comment	Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Eurofins Suite B1	Per- and Polyfluoralkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X	X	X
11	BT-1-1-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067062		X	X			X
12	BT-1-1-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067063		X	X			X
13	BT-1-3-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067064		X	X			X
14	BT-1-3-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067065		X	X			X
15	BT-1-3-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067066		X	X			X
16	BT-1-5-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067067		X	X			X
17	BT-1-5-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067068		X	X			X
18	BT-1-5-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067069		X	X			X
19	BT-1	Sep 28, 2023		Soil	B23-Se0067070				X	X	
20	BT-2-0-1	Sep 28, 2023		Soil	B23-Se0067071				X		X

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

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Company Name: ADE Consulting Group QLD Address: 10/53 Metroplex Ave Murarrie QLD 4172 Project Name: A103021.1540.00 Project ID: A103021.1540.00	Order No.: Report #: 1030176 Phone: 1300 796 922 Fax:	Received: Sep 28, 2023 3:40 PM Due: Oct 4, 2023 Priority: 3 Day Contact Name: Matthew Toole
Eurofins Analytical Services Manager : Zoe Flynn		

Sample Detail						Sample Comment	Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Eurofins Suite B1	Per- and Polyfluoralkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X	X	X
21	BT-2-0-1	Sep 28, 2023		TOP - Soil	B23-Se0067072		X		X		X
22	BT-2-0-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067073		X	X			X
23	BT-2-0-2	Sep 28, 2023		Soil	B23-Se0067074				X		X
24	BT-2-0-2	Sep 28, 2023		TOP - Soil	B23-Se0067075		X		X		X
25	BT-2-0-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067076		X	X			X
26	BT-2-0-3	Sep 28, 2023		Soil	B23-Se0067077				X		X
27	BT-2-0-3	Sep 28, 2023		TOP - Soil	B23-Se0067078		X		X		X
28	BT-2-0-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067079		X	X			X
29	BT-2-1-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067080		X	X			X
30	BT-2-1-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067081		X	X			X
31	BT-2-1-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067082		X	X			X
32	BT-2-3-1	Sep 28, 2023		AUS Leachate	B23-Se0067083		X	X			X

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Company Name: ADE Consulting Group QLD Address: 10/53 Metroplex Ave Murarrie QLD 4172 Project Name: A103021.1540.00 Project ID: A103021.1540.00	Order No.: Report #: 1030176 Phone: 1300 796 922 Fax:	Received: Sep 28, 2023 3:40 PM Due: Oct 4, 2023 Priority: 3 Day Contact Name: Matthew Toole
Eurofins Analytical Services Manager : Zoe Flynn		

Sample Detail						Sample Comment	Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Eurofins Suite B1	Per- and Polyfluoralkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X	X	X
				- TOP							
33	BT-2-3-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067084		X	X			X
34	BT-2-3-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067085		X	X			X
35	BT-2-5-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067086		X	X			X
36	BT-2-5-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067087		X	X			X
37	BT-2-5-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067088		X	X			X
38	BT-2	Sep 28, 2023		Soil	B23-Se0067089				X	X	
39	BT-3-0-1	Sep 28, 2023		Soil	B23-Se0067090				X		X
40	BT-3-0-1	Sep 28, 2023		TOP - Soil	B23-Se0067091		X		X		X
41	BT-3-0-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067092		X	X			X
42	BT-3-0-2	Sep 28, 2023		Soil	B23-Se0067093				X		X
43	BT-3-0-2	Sep 28, 2023		TOP - Soil	B23-Se0067094		X		X		X

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Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X	X	X
44	BT-3-0-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067095		X	X			X
45	BT-3-0-3	Sep 28, 2023		Soil	B23-Se0067096				X		X
46	BT-3-0-3	Sep 28, 2023		TOP - Soil	B23-Se0067097		X		X		X
47	BT-3-0-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067098		X	X			X
48	BT-3-1-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067099		X	X			X
49	BT-3-1-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067100		X	X			X
50	BT-3-1-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067101		X	X			X
51	BT-3-3-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067102		X	X			X
52	BT-3-3-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067103		X	X			X
53	BT-3-3-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067104		X	X			X

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Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X	X	X
54	BT-3-5-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067105		X	X			X
55	BT-3-5-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067106		X	X			X
56	BT-3-5-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067107		X	X			X
57	BT-3	Sep 28, 2023		Soil	B23-Se0067108				X	X	
58	BT-4-0-1	Sep 28, 2023		Soil	B23-Se0067109				X		X
59	BT-4-0-1	Sep 28, 2023		TOP - Soil	B23-Se0067110		X		X		X
60	BT-4-0-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067111		X	X			X
61	BT-4-0-2	Sep 28, 2023		Soil	B23-Se0067112				X		X
62	BT-4-0-2	Sep 28, 2023		TOP - Soil	B23-Se0067113		X		X		X
63	BT-4-0-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067114		X	X			X
64	BT-4-0-3	Sep 28, 2023		Soil	B23-Se0067115				X		X
65	BT-4-0-3	Sep 28, 2023		TOP - Soil	B23-Se0067116		X		X		X

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Sample Detail						Sample Comment	Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Eurofins Suite B1	Per- and Polyfluorocarbon Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X	X	X
66	BT-4-0-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067117		X	X			X
67	BT-4-1-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067118		X	X			X
68	BT-4-1-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067119		X	X			X
69	BT-4-1-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067120		X	X			X
70	BT-4-3-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067121		X	X			X
71	BT-4-3-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067122		X	X			X
72	BT-4-3-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067123		X	X			X
73	BT-4-5-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067124		X	X			X
74	BT-4-5-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067125		X	X			X
75	BT-4-5-3	Sep 28, 2023		AUS Leachate	B23-Se0067126		X	X			X



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Sample Detail						Sample Comment	Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X	X	X
				- TOP							
76	BT-4	Sep 28, 2023		Soil	B23-Se0067127				X	X	
Test Counts						1	60	48	28	4	72

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 (<i>bis</i> -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. SVOCs recoveries 20 – 150%

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							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05			0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01			0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01			0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01			0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotridecanoic acid (PFTTrDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05			0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05			0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05			0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/L	< 0.05			0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/L	< 0.05			0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05			0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSA's)							
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01			0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01			0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01			0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01			0.01	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/L	< 0.05			0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01			0.01	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	90			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	106			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	114			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	91			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	125			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	107			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	91			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	78			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	62			50-150	Pass	
Perfluorotridecanoic acid (PFTTrDA)	%	58			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	73			50-150	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery									
Perfluoroalkyl sulfonamido substances									
Perfluorooctane sulfonamide (FOSA)			%	89			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)			%	64			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)			%	59			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)			%	85			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)			%	56			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)			%	66			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)			%	86			50-150	Pass	
LCS - % Recovery									
Perfluoroalkyl sulfonic acids (PFSA's)									
Perfluorobutanesulfonic acid (PFBS)			%	86			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)			%	76			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)			%	67			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)			%	103			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)			%	92			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)			%	106			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)			%	106			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)			%	57			50-150	Pass	
LCS - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)									
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)			%	87			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)			%	97			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)			%	94			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)			%	54			50-150	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)									
				Result 1					
Perfluorobutanoic acid (PFBA)	B23-Se0067054	CP	%	87			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	B23-Se0067054	CP	%	120			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	B23-Se0067054	CP	%	135			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	B23-Se0067054	CP	%	105			50-150	Pass	
Perfluorooctanoic acid (PFOA)	B23-Se0067054	CP	%	104			50-150	Pass	
Perfluorononanoic acid (PFNA)	B23-Se0067054	CP	%	103			50-150	Pass	
Perfluorodecanoic acid (PFDA)	B23-Se0067054	CP	%	91			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	B23-Se0067054	CP	%	89			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	B23-Se0067054	CP	%	78			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	B23-Se0067054	CP	%	99			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	B23-Se0067054	CP	%	96			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances									
				Result 1					
Perfluorooctane sulfonamide (FOSA)	B23-Se0067054	CP	%	70			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Se0067054	CP	%	86			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Se0067054	CP	%	84			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Se0067054	CP	%	69			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Se0067054	CP	%	92			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Se0067054	CP	%	80			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Se0067054	CP	%	101			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSA's)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	B23-Se0067054	CP	%	88			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	B23-Se0067054	CP	%	80			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	B23-Se0067054	CP	%	136			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	B23-Se0067054	CP	%	117			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	B23-Se0067054	CP	%	89			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	B23-Se0067054	CP	%	76			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	B23-Se0067054	CP	%	92			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	B23-Se0067054	CP	%	58			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Se0067054	CP	%	97			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Se0067054	CP	%	88			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Se0067054	CP	%	100			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Se0067054	CP	%	93			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	B23-Se0067068	CP	%	66			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	B23-Se0067068	CP	%	104			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	B23-Se0067068	CP	%	128			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	B23-Se0067068	CP	%	146			50-150	Pass	
Perfluorooctanoic acid (PFOA)	B23-Se0067068	CP	%	83			50-150	Pass	
Perfluorononanoic acid (PFNA)	B23-Se0067068	CP	%	86			50-150	Pass	
Perfluorodecanoic acid (PFDA)	B23-Se0067068	CP	%	70			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	B23-Se0067068	CP	%	82			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	B23-Se0067068	CP	%	64			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	B23-Se0067068	CP	%	124			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	B23-Se0067068	CP	%	82			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	B23-Se0067068	CP	%	101			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Se0067068	CP	%	97			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Se0067068	CP	%	55			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Se0067068	CP	%	62			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Se0067068	CP	%	75			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Se0067068	CP	%	93			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Se0067068	CP	%	95			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSA's)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	B23-Se0067068	CP	%	91			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	B23-Se0067068	CP	%	64			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	B23-Se0067068	CP	%	73			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	B23-Se0067068	CP	%	60			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	B23-Se0067068	CP	%	111			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	B23-Se0067068	CP	%	74			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	B23-Se0067068	CP	%	102			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	B23-Se0067068	CP	%	51			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Se0067068	CP	%	120			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Se0067068	CP	%	99			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Se0067068	CP	%	103			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Se0067068	CP	%	57			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCA's)				Result 1					
Perfluorobutanoic acid (PFBA)	B23-Se0067107	CP	%	117			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	B23-Se0067107	CP	%	96			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	B23-Se0067107	CP	%	122			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	B23-Se0067107	CP	%	105			50-150	Pass	
Perfluorooctanoic acid (PFOA)	B23-Se0067107	CP	%	121			50-150	Pass	
Perfluorononanoic acid (PFNA)	B23-Se0067107	CP	%	88			50-150	Pass	
Perfluorodecanoic acid (PFDA)	B23-Se0067107	CP	%	72			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	B23-Se0067107	CP	%	61			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	B23-Se0067107	CP	%	63			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	B23-Se0067107	CP	%	68			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	B23-Se0067107	CP	%	64			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	B23-Se0067107	CP	%	101			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Se0067107	CP	%	63			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Se0067107	CP	%	62			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Se0067107	CP	%	119			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Se0067107	CP	%	53			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Se0067107	CP	%	79			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Se0067107	CP	%	84			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFASs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	B23-Se0067107	CP	%	96			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	B23-Se0067107	CP	%	65			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	B23-Se0067107	CP	%	88			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	B23-Se0067107	CP	%	111			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	B23-Se0067107	CP	%	87			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	B23-Se0067107	CP	%	85			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	B23-Se0067107	CP	%	93			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	B23-Se0067107	CP	%	52			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Se0067107	CP	%	90			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Se0067107	CP	%	90			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Se0067107	CP	%	77			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Se0067107	CP	%	66			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	B23-Se0067122	CP	%	104			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	B23-Se0067122	CP	%	98			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	B23-Se0067122	CP	%	107			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	B23-Se0067122	CP	%	89			50-150	Pass	
Perfluorooctanoic acid (PFOA)	B23-Se0067122	CP	%	119			50-150	Pass	
Perfluorononanoic acid (PFNA)	B23-Se0067122	CP	%	96			50-150	Pass	
Perfluorodecanoic acid (PFDA)	B23-Se0067122	CP	%	82			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	B23-Se0067122	CP	%	64			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	B23-Se0067122	CP	%	62			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	B23-Se0067122	CP	%	50			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	B23-Se0067122	CP	%	69			50-150	Pass	
Spike - % Recovery									

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	B23-Se0067122	CP	%	85			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Se0067122	CP	%	59			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Se0067122	CP	%	60			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Se0067122	CP	%	108			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Se0067122	CP	%	56			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Se0067122	CP	%	53			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Se0067122	CP	%	81			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSA's)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	B23-Se0067122	CP	%	91			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	B23-Se0067122	CP	%	64			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	B23-Se0067122	CP	%	75			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	B23-Se0067122	CP	%	101			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	B23-Se0067122	CP	%	93			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	B23-Se0067122	CP	%	104			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	B23-Se0067122	CP	%	91			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	B23-Se0067122	CP	%	51			50-150	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	B23-Se0067062	CP	ug/L	< 0.5	< 0.5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	B23-Se0067062	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	B23-Se0067062	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	B23-Se0067062	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	B23-Se0067062	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	B23-Se0067062	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	B23-Se0067062	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	B23-Se0067062	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	B23-Se0067062	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	B23-Se0067062	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	B23-Se0067062	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass	

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	B23-Se0067062	CP	ug/L	< 0.2	< 0.2	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Se0067062	CP	ug/L	< 0.2	< 0.2	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Se0067062	CP	ug/L	< 0.2	< 0.2	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Se0067062	CP	ug/L	< 0.2	< 0.2	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Se0067062	CP	ug/L	< 0.2	< 0.2	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Se0067062	CP	ug/L	< 0.2	< 0.2	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Se0067062	CP	ug/L	< 0.2	< 0.2	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFASs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	B23-Se0067062	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	B23-Se0067062	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	B23-Se0067062	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	B23-Se0067062	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	B23-Se0067062	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	B23-Se0067062	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	B23-Se0067062	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	B23-Se0067062	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Se0067062	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Se0067062	CP	ug/L	< 0.5	< 0.5	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Se0067062	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Se0067062	CP	ug/L	< 0.1	< 0.1	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	B23-Se0067083	CP	ug/L	1.2	1.2	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	B23-Se0067083	CP	ug/L	2.2	2.0	8.1	30%	Pass
Perfluorohexanoic acid (PFHxA)	B23-Se0067083	CP	ug/L	2.4	2.2	6.6	30%	Pass
Perfluoroheptanoic acid (PFHpA)	B23-Se0067083	CP	ug/L	2.7	3.1	13	30%	Pass
Perfluorooctanoic acid (PFOA)	B23-Se0067083	CP	ug/L	1.7	1.8	5.9	30%	Pass
Perfluorononanoic acid (PFNA)	B23-Se0067083	CP	ug/L	0.21	0.24	9.7	30%	Pass
Perfluorodecanoic acid (PFDA)	B23-Se0067083	CP	ug/L	0.03	0.03	6.8	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	B23-Se0067083	CP	ug/L	0.02	0.01	21	30%	Pass
Perfluorododecanoic acid (PFDoDA)	B23-Se0067083	CP	ug/L	0.01	0.01	19	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	B23-Se0067083	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	B23-Se0067083	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	B23-Se0067083	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Se0067083	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Se0067083	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Se0067083	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Se0067083	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Se0067083	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Se0067083	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFASs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	B23-Se0067083	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	B23-Se0067083	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	B23-Se0067083	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	B23-Se0067083	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	B23-Se0067083	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	B23-Se0067083	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	B23-Se0067083	CP	ug/L	0.04	0.04	1.2	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	B23-Se0067083	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Se0067083	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Se0067083	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Se0067083	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Se0067083	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	B23-Se0067084	CP	ug/L	1.2	1.3	4.7	30%	Pass
Perfluoropentanoic acid (PFPeA)	B23-Se0067084	CP	ug/L	2.4	2.1	13	30%	Pass
Perfluorohexanoic acid (PFHxA)	B23-Se0067084	CP	ug/L	2.1	2.2	4.7	30%	Pass
Perfluoroheptanoic acid (PFHpA)	B23-Se0067084	CP	ug/L	2.8	2.7	4.2	30%	Pass
Perfluorooctanoic acid (PFOA)	B23-Se0067084	CP	ug/L	1.6	1.7	5.6	30%	Pass
Perfluorononanoic acid (PFNA)	B23-Se0067084	CP	ug/L	0.19	0.22	14	30%	Pass
Perfluorodecanoic acid (PFDA)	B23-Se0067084	CP	ug/L	0.02	0.03	29	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	B23-Se0067084	CP	ug/L	0.02	0.02	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	B23-Se0067084	CP	ug/L	0.02	0.01	34	30%	Fail
Perfluorotridecanoic acid (PFTrDA)	B23-Se0067084	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	B23-Se0067084	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	B23-Se0067084	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Se0067084	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Se0067084	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Se0067084	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Se0067084	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Se0067084	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Se0067084	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFASs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	B23-Se0067084	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	B23-Se0067084	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	B23-Se0067084	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	B23-Se0067084	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	B23-Se0067084	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	B23-Se0067084	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	B23-Se0067084	CP	ug/L	0.04	0.04	11	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	B23-Se0067084	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Se0067084	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Se0067084	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Se0067084	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Se0067084	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	B23-Se0067100	CP	ug/L	14	13	2.7	30%	Pass
Perfluoropentanoic acid (PFPeA)	B23-Se0067100	CP	ug/L	34	34	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	B23-Se0067100	CP	ug/L	14	15	4.3	30%	Pass
Perfluoroheptanoic acid (PFHpA)	B23-Se0067100	CP	ug/L	3.1	3.1	1.6	30%	Pass
Perfluorooctanoic acid (PFOA)	B23-Se0067100	CP	ug/L	0.80	0.88	10.0	30%	Pass
Perfluorononanoic acid (PFNA)	B23-Se0067100	CP	ug/L	0.11	0.13	10	30%	Pass
Perfluorodecanoic acid (PFDA)	B23-Se0067100	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	B23-Se0067100	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	B23-Se0067100	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	B23-Se0067100	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	B23-Se0067100	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	B23-Se0067100	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Se0067100	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Se0067100	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Se0067100	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Se0067100	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Se0067100	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Se0067100	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFASs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	B23-Se0067100	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	B23-Se0067100	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	B23-Se0067100	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	B23-Se0067100	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	B23-Se0067100	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	B23-Se0067100	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	B23-Se0067100	CP	ug/L	0.02	0.02	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	B23-Se0067100	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Se0067100	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Se0067100	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Se0067100	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Se0067100	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	B23-Se0067118	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	B23-Se0067118	CP	ug/L	0.02	0.02	28	30%	Pass
Perfluorohexanoic acid (PFHxA)	B23-Se0067118	CP	ug/L	0.03	0.03	3.2	30%	Pass
Perfluoroheptanoic acid (PFHpA)	B23-Se0067118	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	B23-Se0067118	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanoic acid (PFNA)	B23-Se0067118	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	B23-Se0067118	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	B23-Se0067118	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	B23-Se0067118	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	B23-Se0067118	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	B23-Se0067118	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	B23-Se0067118	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Se0067118	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Se0067118	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Se0067118	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Se0067118	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Se0067118	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Se0067118	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA's)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	B23-Se0067118	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	B23-Se0067118	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	B23-Se0067118	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	B23-Se0067118	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	B23-Se0067118	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	B23-Se0067118	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	B23-Se0067118	CP	ug/L	0.04	0.04	1.2	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	B23-Se0067118	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Se0067118	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Se0067118	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Se0067118	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Se0067118	CP	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
C01	Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other
G01	The LORs have been raised due to matrix interference
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.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
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:

Zoe Flynn	Analytical Services Manager
Jonathon Angell	Senior Analyst-PFAS
Jonathon Angell	Senior Analyst-Sample Properties
Sarah McCallion	Senior Analyst-PFAS



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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Murarrie
QLD 4172



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

Attention: **Matthew Toole**

Report **1036504-S**
 Project name **A103021.1540.00**
 Project ID **A103021.1540.00**
 Received Date **Oct 19, 2023**

Client Sample ID			B1-1	B1-1	B1-2	B1-2
Sample Matrix			Soil	TOP - Soil	Soil	TOP - Soil
Eurofins Sample No.			B23- Oc0044704	B23- Oc0044705	B23- Oc0044707	B23- Oc0044708
Date Sampled			Oct 16, 2023	Oct 16, 2023	Oct 16, 2023	Oct 16, 2023
Test/Reference	LOR	Unit				
Extractable Organofluorine (EOF)*	0.5	mg F/kg	<0.5	-	<0.5	-
Sample Properties						
% Moisture	1	%	27	24	28	27
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	29	^{Q09} 73	30	89
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	81	^{Q09} 280	86	220
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	73	130	79	110
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	^{N09} 7.9	25	^{N09} 9.3	33
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	7.0	< 5	9.8
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTeDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	71	13	68	101
13C5-PFPeA (surr.)	1	%	70	18	64	88
13C5-PFHxA (surr.)	1	%	77	88	71	100
13C4-PFHpA (surr.)	1	%	83	101	76	94
13C8-PFOA (surr.)	1	%	89	98	77	86
13C5-PFNA (surr.)	1	%	96	149	93	131
13C6-PFDA (surr.)	1	%	109	87	98	87
13C2-PFUnDA (surr.)	1	%	106	115	89	81
13C2-PFDoDA (surr.)	1	%	112	113	103	65
13C2-PFTeDA (surr.)	1	%	120	82	111	68
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	B1-1 Soil B23- Oc0044704 Oct 16, 2023	B1-1 TOP - Soil B23- Oc0044705 Oct 16, 2023	B1-2 Soil B23- Oc0044707 Oct 16, 2023	B1-2 TOP - Soil B23- Oc0044708 Oct 16, 2023
Perfluoroalkyl sulfonamido substances						
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	73	85	67	79
D3-N-MeFOSA (surr.)	1	%	94	87	91	65
D5-N-EtFOSA (surr.)	1	%	97	84	86	57
D7-N-MeFOSE (surr.)	1	%	55	124	59	108
D9-N-EtFOSE (surr.)	1	%	80	71	72	64
D5-N-EtFOSAA (surr.)	1	%	127	84	112	67
D3-N-MeFOSAA (surr.)	1	%	103	93	83	85
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	75	94	81	97
18O2-PFHxS (surr.)	1	%	87	114	78	110
13C8-PFOS (surr.)	1	%	89	102	88	100
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	97	< 10	110	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	38	< 5	36	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	166	102	108	79
13C2-6:2 FTSA (surr.)	1	%	190	128	153	96
13C2-8:2 FTSA (surr.)	1	%	135	113	126	111
13C2-10:2 FTSA (surr.)	1	%	140	100	144	81
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	7	< 5	9.8
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	7	< 5	9.8
Sum of WA DWER PFAS (n=10)*	10	ug/kg	325.9	515	350.3	461.8
Sum of PFASs (n=30)*	50	ug/kg	325.9	515	350.3	461.8

Client Sample ID			B1-3 Soil B23- Oc0044710 Oct 16, 2023	B1-3 TOP - Soil B23- Oc0044711 Oct 16, 2023	B1-4 Soil B23- Oc0044713 Oct 16, 2023	B1-4 TOP - Soil B23- Oc0044714 Oct 16, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Extractable Organofluorine (EOF)*	0.5	mg F/kg	<0.5	-	<0.5	-
Sample Properties						
% Moisture	1	%	28	27	28	27
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	29	46	26	81
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	84	120	84	190
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	75	68	77	93
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	8.5	12	8.6	23
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5	6.8
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTeDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	80	109	71	99
13C5-PFPeA (surr.)	1	%	79	90	63	80
13C5-PFHxA (surr.)	1	%	75	106	59	100
13C4-PFHpA (surr.)	1	%	90	87	70	91
13C8-PFOA (surr.)	1	%	95	80	72	79
13C5-PFNA (surr.)	1	%	101	119	90	112
13C6-PFDA (surr.)	1	%	113	69	92	75
13C2-PFUnDA (surr.)	1	%	117	77	104	90
13C2-PFDoDA (surr.)	1	%	125	70	98	83
13C2-PFTeDA (surr.)	1	%	147	62	134	73
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	95	61	75	66
D3-N-MeFOSA (surr.)	1	%	66	55	73	60
D5-N-EtFOSA (surr.)	1	%	59	53	71	55
D7-N-MeFOSE (surr.)	1	%	61	76	75	89
D9-N-EtFOSE (surr.)	1	%	69	56	71	62
D5-N-EtFOSAA (surr.)	1	%	157	57	121	62
D3-N-MeFOSAA (surr.)	1	%	133	65	110	76
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	B1-3 Soil B23- Oc0044710 Oct 16, 2023	B1-3 TOP - Soil B23- Oc0044711 Oct 16, 2023	B1-4 Soil B23- Oc0044713 Oct 16, 2023	B1-4 TOP - Soil B23- Oc0044714 Oct 16, 2023
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	86	84	67	88
18O2-PFHxS (surr.)	1	%	92	99	79	97
13C8-PFOS (surr.)	1	%	108	85	92	88
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	10	ug/kg	86	< 10	78	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	33	< 5	24	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	143	65	164	81
13C2-6:2 FTSA (surr.)	1	%	196	94	179	110
13C2-8:2 FTSA (surr.)	1	%	248	86	182	92
13C2-10:2 FTSA (surr.)	1	%	279	78	227	82
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	6.8
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	6.8
Sum of WA DWER PFAS (n=10)*	10	ug/kg	315.5	246	297.6	393.8
Sum of PFASs (n=30)*	50	ug/kg	315.5	246	297.6	393.8

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	B2-1 Soil B23- Oc0044716 Oct 16, 2023	B2-1 TOP - Soil B23- Oc0044717 Oct 16, 2023	B2-2 Soil B23- Oc0044719 Oct 16, 2023	B2-2 TOP - Soil B23- Oc0044720 Oct 16, 2023
Extractable Organofluorine (EOF)*	0.5	mg F/kg	<0.5	-	<0.5	-
Sample Properties						
% Moisture	1	%	7.0	7.9	5.3	6.1
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	21	< 5	25
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	37	< 5	41
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	26	< 5	30
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	37	< 5	48
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	12	< 5	14
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTriDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5

Client Sample ID			B2-1 Soil B23- Oc0044716 Oct 16, 2023	B2-1 TOP - Soil B23- Oc0044717 Oct 16, 2023	B2-2 Soil B23- Oc0044719 Oct 16, 2023	B2-2 TOP - Soil B23- Oc0044720 Oct 16, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C4-PFBA (surr.)	1	%	36	67	32	50
13C5-PFPeA (surr.)	1	%	44	107	42	67
13C5-PFHxA (surr.)	1	%	50	121	44	73
13C4-PFHpA (surr.)	1	%	51	132	54	73
13C8-PFOA (surr.)	1	%	53	121	54	84
13C5-PFNA (surr.)	1	%	68	135	66	99
13C6-PFDA (surr.)	1	%	81	122	79	69
13C2-PFUnDA (surr.)	1	%	78	136	77	75
13C2-PFDoDA (surr.)	1	%	73	91	83	76
13C2-PFTeDA (surr.)	1	%	87	81	87	52
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	62	107	70	72
D3-N-MeFOSA (surr.)	1	%	84	81	84	73
D5-N-EtFOSA (surr.)	1	%	74	69	74	74
D7-N-MeFOSE (surr.)	1	%	67	129	65	49
D9-N-EtFOSE (surr.)	1	%	73	79	68	59
D5-N-EtFOSAA (surr.)	1	%	78	106	76	66
D3-N-MeFOSAA (surr.)	1	%	60	112	54	65
Perfluoroalkyl sulfonic acids (PFSA's)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	^{N09} 12	^{N09} 11	^{N09} 11	^{N09} 13
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	52	146	65	81
18O2-PFHxS (surr.)	1	%	71	143	71	79
13C8-PFOS (surr.)	1	%	82	123	85	79
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	10	ug/kg	12	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	100	172	90	51

Client Sample ID			B2-1	B2-1	B2-2	B2-2
Sample Matrix			Soil	TOP - Soil	Soil	TOP - Soil
Eurofins Sample No.			B23- Oc0044716	B23- Oc0044717	B23- Oc0044719	B23- Oc0044720
Date Sampled			Oct 16, 2023	Oct 16, 2023	Oct 16, 2023	Oct 16, 2023
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
13C2-6:2 FTSA (surr.)	1	%	114	153	140	85
13C2-8:2 FTSA (surr.)	1	%	93	186	100	89
13C2-10:2 FTSA (surr.)	1	%	87	99	112	70
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	12	11	11	13
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	12	23	11	27
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	12	23	11	27
Sum of WA DWER PFAS (n=10)*	10	ug/kg	24	144	11	171
Sum of PFASs (n=30)*	50	ug/kg	< 50	144	< 50	171

Client Sample ID			B2-3	B2-3	B2-4	B2-4
Sample Matrix			Soil	TOP - Soil	Soil	TOP - Soil
Eurofins Sample No.			B23- Oc0044722	B23- Oc0044723	B23- Oc0044725	B23- Oc0044726
Date Sampled			Oct 16, 2023	Oct 16, 2023	Oct 16, 2023	Oct 16, 2023
Test/Reference	LOR	Unit				
Extractable Organofluorine (EOF)*	0.5	mg F/kg	<0.5	-	<0.5	-
Sample Properties						
% Moisture	1	%	8.2	6.1	6.6	6.9
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	17	< 5	14
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	25	< 5	23
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	16	< 5	17
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	22	< 5	27
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	6.4	< 5	9.6
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTeDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	53	25	35	86
13C5-PFPeA (surr.)	1	%	56	74	42	82
13C5-PFHxA (surr.)	1	%	58	102	41	100
13C4-PFHpA (surr.)	1	%	59	92	44	86
13C8-PFOA (surr.)	1	%	62	95	54	76
13C5-PFNA (surr.)	1	%	77	133	71	120
13C6-PFDA (surr.)	1	%	91	82	76	77
13C2-PFUnDA (surr.)	1	%	85	84	85	91
13C2-PFDoDA (surr.)	1	%	82	86	76	80
13C2-PFTeDA (surr.)	1	%	98	64	95	67

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	B2-3 Soil B23- Oc0044722 Oct 16, 2023	B2-3 TOP - Soil B23- Oc0044723 Oct 16, 2023	B2-4 Soil B23- Oc0044725 Oct 16, 2023	B2-4 TOP - Soil B23- Oc0044726 Oct 16, 2023
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	69	83	77	78
D3-N-MeFOSA (surr.)	1	%	85	67	63	60
D5-N-EtFOSA (surr.)	1	%	80	57	56	52
D7-N-MeFOSE (surr.)	1	%	70	98	94	86
D9-N-EtFOSE (surr.)	1	%	76	62	59	59
D5-N-EtFOSAA (surr.)	1	%	101	65	76	60
D3-N-MeFOSAA (surr.)	1	%	73	73	83	78
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	^{N09} 9.8	^{N09} 7.0	^{N09} 11	^{N09} 13
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	65	106	55	105
18O2-PFHxS (surr.)	1	%	80	113	61	97
13C8-PFOS (surr.)	1	%	82	91	83	82
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	10	ug/kg	14	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	105	115	67	95
13C2-6:2 FTSA (surr.)	1	%	102	127	116	106
13C2-8:2 FTSA (surr.)	1	%	102	99	205	97
13C2-10:2 FTSA (surr.)	1	%	105	88	211	85
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	9.8	7	11	13
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	9.8	13.4	11	22.6
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	9.8	13.4	11	22.6
Sum of WA DWER PFAS (n=10)*	10	ug/kg	23.8	93.4	11	103.6
Sum of PFASs (n=30)*	50	ug/kg	< 50	93.4	< 50	103.6

Client Sample ID			B3-1 Soil B23- Oc0044728 Oct 16, 2023	B3-1 TOP - Soil B23- Oc0044729 Oct 16, 2023	B3-2 Soil B23- Oc0044731 Oct 16, 2023	B3-2 TOP - Soil B23- Oc0044732 Oct 16, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Extractable Organofluorine (EOF)*	0.5	mg F/kg	<0.5	-	<0.5	-
Sample Properties						
% Moisture	1	%	19	19	21	17
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	5.0	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	8.9	< 5	7.9
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	6.0	< 5	6.4
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTeDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	56	91	73	95
13C5-PFPeA (surr.)	1	%	60	91	75	84
13C5-PFHxA (surr.)	1	%	54	94	76	95
13C4-PFHpA (surr.)	1	%	60	93	76	90
13C8-PFOA (surr.)	1	%	60	77	87	83
13C5-PFNA (surr.)	1	%	83	134	112	122
13C6-PFDA (surr.)	1	%	90	75	115	64
13C2-PFUnDA (surr.)	1	%	91	69	117	68
13C2-PFDoDA (surr.)	1	%	86	58	125	62
13C2-PFTeDA (surr.)	1	%	97	56	146	50
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	64	70	90	55
D3-N-MeFOSA (surr.)	1	%	67	50	61	48
D5-N-EtFOSA (surr.)	1	%	61	46	57	44
D7-N-MeFOSE (surr.)	1	%	106	79	145	75
D9-N-EtFOSE (surr.)	1	%	74	51	102	49
D5-N-EtFOSAA (surr.)	1	%	82	61	135	50
D3-N-MeFOSAA (surr.)	1	%	123	71	148	59
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5

Client Sample ID			B3-1 Soil B23- Oc0044728 Oct 16, 2023	B3-1 TOP - Soil B23- Oc0044729 Oct 16, 2023	B3-2 Soil B23- Oc0044731 Oct 16, 2023	B3-2 TOP - Soil B23- Oc0044732 Oct 16, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	5.5	^{N09} 6.7	5.5	^{N09} 8.1
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	^{N09} 71	^{N09} 66	^{N09} 69	^{N09} 60
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	58	99	82	98
18O2-PFHxS (surr.)	1	%	74	93	99	89
13C8-PFOS (surr.)	1	%	74	64	104	78
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	54	58	79	69
13C2-6:2 FTSA (surr.)	1	%	122	82	148	97
13C2-8:2 FTSA (surr.)	1	%	256	92	319	75
13C2-10:2 FTSA (surr.)	1	%	169	62	209	57
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	76.5	72.7	74.5	68.1
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	71	66	69	60
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	76.5	72.7	74.5	68.1
Sum of WA DWER PFAS (n=10)*	10	ug/kg	76.5	92.6	74.5	82.4
Sum of PFASs (n=30)*	50	ug/kg	76.5	92.6	74.5	82.4

Client Sample ID			B3-3 Soil B23- Oc0044734 Oct 16, 2023	B3-3 TOP - Soil B23- Oc0044735 Oct 16, 2023	B3-4 Soil B23- Oc0044737 Oct 16, 2023	B3-4 TOP - Soil B23- Oc0044738 Oct 16, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Extractable Organofluorine (EOF)*	0.5	mg F/kg	<0.5	-	<0.5	-
Sample Properties						
% Moisture	1	%	20	19	17	15
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	< 5	< 5	7.0
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTriDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5

Client Sample ID			B3-3 Soil B23- Oc0044734 Oct 16, 2023	B3-3 TOP - Soil B23- Oc0044735 Oct 16, 2023	B3-4 Soil B23- Oc0044737 Oct 16, 2023	B3-4 TOP - Soil B23- Oc0044738 Oct 16, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C4-PFBA (surr.)	1	%	61	97	62	55
13C5-PFPeA (surr.)	1	%	65	84	71	91
13C5-PFHxA (surr.)	1	%	76	105	65	108
13C4-PFHpA (surr.)	1	%	72	95	69	118
13C8-PFOA (surr.)	1	%	74	85	68	106
13C5-PFNA (surr.)	1	%	86	105	88	163
13C6-PFDA (surr.)	1	%	98	68	97	94
13C2-PFUnDA (surr.)	1	%	95	71	100	99
13C2-PFDoDA (surr.)	1	%	95	63	101	91
13C2-PFTeDA (surr.)	1	%	93	55	102	86
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	65	61	63	89
D3-N-MeFOSA (surr.)	1	%	93	54	95	74
D5-N-EtFOSA (surr.)	1	%	90	52	89	68
D7-N-MeFOSE (surr.)	1	%	78	76	77	111
D9-N-EtFOSE (surr.)	1	%	83	52	82	68
D5-N-EtFOSAA (surr.)	1	%	95	57	108	86
D3-N-MeFOSAA (surr.)	1	%	95	57	85	95
Perfluoroalkyl sulfonic acids (PFSA's)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	^{N09} 7.4	^{N09} 6.0	^{N09} 6.2	^{N09} 5.1
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	^{N09} 77	^{N09} 61	^{N09} 64	^{N09} 66
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	72	95	71	105
18O2-PFHxS (surr.)	1	%	87	92	78	114
13C8-PFOS (surr.)	1	%	84	74	81	74
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	86	73	74	97

Client Sample ID			B3-3	B3-3	B3-4	B3-4
Sample Matrix			Soil	TOP - Soil	Soil	TOP - Soil
Eurofins Sample No.			B23- Oc0044734	B23- Oc0044735	B23- Oc0044737	B23- Oc0044738
Date Sampled			Oct 16, 2023	Oct 16, 2023	Oct 16, 2023	Oct 16, 2023
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
13C2-6:2 FTSA (surr.)	1	%	99	88	108	134
13C2-8:2 FTSA (surr.)	1	%	116	74	105	130
13C2-10:2 FTSA (surr.)	1	%	98	65	124	96
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	84.4	67	70.2	71.1
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	77	61	64	66
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	84.4	67	70.2	71.1
Sum of WA DWER PFAS (n=10)*	10	ug/kg	84.4	67	70.2	78.1
Sum of PFASs (n=30)*	50	ug/kg	84.4	67	70.2	78.1

Client Sample ID			B1-6	B1-6	QC01	B2-6
Sample Matrix			Soil	TOP - Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0044740	B23- Oc0044741	B23- Oc0044743	B23- Oc0044745
Date Sampled			Oct 16, 2023	Oct 16, 2023	Oct 17, 2023	Oct 17, 2023
Test/Reference	LOR	Unit				
Extractable Organofluorine (EOF)*	0.5	mg F/kg	<0.5	-	-	<0.5
Sample Properties						
% Moisture	1	%	25	26	25	6.3
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	25	Q0985	23	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	77	190	74	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	69	98	61	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	8.5	22	8.1	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	6.5	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTeDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	76	41	72	35
13C5-PFPeA (surr.)	1	%	73	81	67	40
13C5-PFHxA (surr.)	1	%	72	93	72	47
13C4-PFHpA (surr.)	1	%	79	85	78	51
13C8-PFOA (surr.)	1	%	83	82	84	53
13C5-PFNA (surr.)	1	%	92	110	88	59
13C6-PFDA (surr.)	1	%	104	69	95	68
13C2-PFUnDA (surr.)	1	%	106	75	96	64
13C2-PFDoDA (surr.)	1	%	101	72	95	64
13C2-PFTeDA (surr.)	1	%	127	60	129	84

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	B1-6 Soil B23- Oc0044740 Oct 16, 2023	B1-6 TOP - Soil B23- Oc0044741 Oct 16, 2023	QC01 Soil B23- Oc0044743 Oct 17, 2023	B2-6 Soil B23- Oc0044745 Oct 17, 2023
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	77	67	71	62
D3-N-MeFOSA (surr.)	1	%	65	58	73	72
D5-N-EtFOSA (surr.)	1	%	60	50	69	67
D7-N-MeFOSE (surr.)	1	%	68	83	79	59
D9-N-EtFOSE (surr.)	1	%	67	51	68	68
D5-N-EtFOSAA (surr.)	1	%	130	57	112	69
D3-N-MeFOSAA (surr.)	1	%	111	64	119	49
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	^{N09} 14
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	73	88	73	53
18O2-PFHxS (surr.)	1	%	80	97	78	52
13C8-PFOS (surr.)	1	%	96	77	101	68
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	10	ug/kg	90	< 10	77	14
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	29	< 5	22	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	103	94	98	97
13C2-6:2 FTSA (surr.)	1	%	141	93	180	118
13C2-8:2 FTSA (surr.)	1	%	236	91	232	85
13C2-10:2 FTSA (surr.)	1	%	180	92	201	117
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	14
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	6.5	< 5	14
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	6.5	< 5	14
Sum of WA DWER PFAS (n=10)*	10	ug/kg	298.5	401.5	265.1	28
Sum of PFASs (n=30)*	50	ug/kg	298.5	401.5	265.1	< 50

Client Sample ID			B2-6	QC03	B3-6	B3-6
Sample Matrix			TOP - Soil	Soil	Soil	TOP - Soil
Eurofins Sample No.			B23- Oc0044746	B23- Oc0044748	B23- Oc0044750	B23- Oc0044751
Date Sampled			Oct 17, 2023	Oct 17, 2023	Oct 17, 2023	Oct 17, 2023
Test/Reference	LOR	Unit				
Extractable Organofluorine (EOF)*	0.5	mg F/kg	-	-	<0.5	-
Sample Properties						
% Moisture	1	%	6.3	5.1	19	19
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	25	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	43	< 5	< 5	5.8
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	31	< 5	< 5	5.3
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	49	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	20	< 5	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTeDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	66	38	63	107
13C5-PFPeA (surr.)	1	%	101	52	65	93
13C5-PFHxA (surr.)	1	%	116	50	68	113
13C4-PFHpA (surr.)	1	%	100	56	65	113
13C8-PFOA (surr.)	1	%	82	58	70	101
13C5-PFNA (surr.)	1	%	145	74	84	132
13C6-PFDA (surr.)	1	%	85	83	98	80
13C2-PFUnDA (surr.)	1	%	96	76	95	98
13C2-PFDoDA (surr.)	1	%	87	69	92	88
13C2-PFTeDA (surr.)	1	%	72	96	102	76
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	86	66	74	80
D3-N-MeFOSA (surr.)	1	%	69	89	96	64
D5-N-EtFOSA (surr.)	1	%	61	78	93	58
D7-N-MeFOSE (surr.)	1	%	96	65	90	99
D9-N-EtFOSE (surr.)	1	%	65	73	87	65
D5-N-EtFOSAA (surr.)	1	%	67	86	114	75
D3-N-MeFOSAA (surr.)	1	%	76	68	90	82
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	B2-6 TOP - Soil B23- Oc0044746 Oct 17, 2023	QC03 Soil B23- Oc0044748 Oct 17, 2023	B3-6 Soil B23- Oc0044750 Oct 17, 2023	B3-6 TOP - Soil B23- Oc0044751 Oct 17, 2023
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	^{N09} 6.4	^{N09} 7.4
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	^{N09} 14	^{N09} 11	^{N09} 87	^{N09} 68
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	111	69	75	108
18O2-PFHxS (surr.)	1	%	120	73	87	103
13C8-PFOS (surr.)	1	%	92	69	78	96
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	10	ug/kg	< 10	11	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	146	109	77	114
13C2-6:2 FTSA (surr.)	1	%	137	125	97	138
13C2-8:2 FTSA (surr.)	1	%	114	88	119	102
13C2-10:2 FTSA (surr.)	1	%	89	92	113	102
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	14	11	93.4	75.4
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	34	11	87	68
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	34	11	93.4	75.4
Sum of WA DWER PFAS (n=10)*	10	ug/kg	182	22	93.4	86.5
Sum of PFASs (n=30)*	50	ug/kg	182	< 50	93.4	86.5

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	QC05 Soil B23- Oc0044753 Oct 17, 2023	B1-1 Soil B23- Oc0044755 Oct 17, 2023	B1-2 Soil B23- Oc0044756 Oct 17, 2023	B1-3 Soil B23- Oc0044757 Oct 17, 2023
Ammonium Ion (as N)	5	mg/kg	-	20	40	45
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	-	1100	540	770
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	11	11	11
Total Organic Carbon	0.1	%	-	0.5	1.3	0.4
Particle Size Distribution			-	See Attached	See Attached	See Attached
Sample Properties						
% Moisture	1	%	19	33	35	28
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	-	-	-
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	-	-	-
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	-	-	-
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	-	-	-
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	-	-	-
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	-	-	-
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	-	-	-

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	QC05 Soil B23- Oc0044753 Oct 17, 2023	B1-1 Soil B23- Oc0044755 Oct 17, 2023	B1-2 Soil B23- Oc0044756 Oct 17, 2023	B1-3 Soil B23- Oc0044757 Oct 17, 2023
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	-	-	-
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	-	-	-
Perfluorotridecanoic acid (PFTrDA) ^{N15}	5	ug/kg	< 5	-	-	-
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	-	-	-
13C4-PFBA (surr.)	1	%	61	-	-	-
13C5-PFPeA (surr.)	1	%	59	-	-	-
13C5-PFHxA (surr.)	1	%	65	-	-	-
13C4-PFHpA (surr.)	1	%	64	-	-	-
13C8-PFOA (surr.)	1	%	69	-	-	-
13C5-PFNA (surr.)	1	%	87	-	-	-
13C6-PFDA (surr.)	1	%	96	-	-	-
13C2-PFUnDA (surr.)	1	%	94	-	-	-
13C2-PFDoDA (surr.)	1	%	95	-	-	-
13C2-PFTeDA (surr.)	1	%	108	-	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	-	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	-	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	-	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	5	ug/kg	< 5	-	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	5	ug/kg	< 5	-	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	-	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	-	-	-
13C8-FOSA (surr.)	1	%	64	-	-	-
D3-N-MeFOSA (surr.)	1	%	93	-	-	-
D5-N-EtFOSA (surr.)	1	%	89	-	-	-
D7-N-MeFOSE (surr.)	1	%	79	-	-	-
D9-N-EtFOSE (surr.)	1	%	85	-	-	-
D5-N-EtFOSAA (surr.)	1	%	109	-	-	-
D3-N-MeFOSAA (surr.)	1	%	75	-	-	-
Perfluoroalkyl sulfonic acids (PFSAAs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	-	-	-
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	-	-	-
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	-	-	-
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	-	-	-
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	^{N09} 6.3	-	-	-
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	-	-	-
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	^{N09} 66	-	-	-
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	-	-	-
13C3-PFBS (surr.)	1	%	71	-	-	-
18O2-PFHxS (surr.)	1	%	78	-	-	-
13C8-PFOS (surr.)	1	%	79	-	-	-

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	QC05 Soil B23- Oc0044753 Oct 17, 2023	B1-1 Soil B23- Oc0044755 Oct 17, 2023	B1-2 Soil B23- Oc0044756 Oct 17, 2023	B1-3 Soil B23- Oc0044757 Oct 17, 2023
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	-	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	-	-	-
13C2-4:2 FTSA (surr.)	1	%	93	-	-	-
13C2-6:2 FTSA (surr.)	1	%	104	-	-	-
13C2-8:2 FTSA (surr.)	1	%	110	-	-	-
13C2-10:2 FTSA (surr.)	1	%	94	-	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	72.3	-	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	66	-	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	72.3	-	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	72.3	-	-	-
Sum of PFASs (n=30)*	50	ug/kg	72.3	-	-	-
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	-	180	130	160
TRH C29-C36	50	mg/kg	-	110	78	84
TRH C10-C36 (Total)	50	mg/kg	-	290	208	244
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
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	-	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	-	250	180	220
TRH >C34-C40	100	mg/kg	-	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	250	180	220
Alkalinity (speciated)						
Total Alkalinity (as CaCO3)	50	mg/kg	-	350	750	770
Cation Exchange Capacity						
Cation Exchange Capacity*	0.5	meq/100g	-	64	61	75
Acid Sulfate Soils Field pH Test						
pH-F (Field pH test)*	0.1	pH Units	-	11	11	11
pH-FOX (Field pH Peroxide test)*	0.1	pH Units	-	10.0	9.9	10
Reaction Ratings ^{S05}	0	-	-	4.0	4.0	4.0

Client Sample ID			B2-1 Soil B23- Oc0044758 Oct 17, 2023	B2-2 Soil B23- Oc0044759 Oct 17, 2023	B2-3 Soil B23- Oc0044760 Oct 17, 2023	B3-1 Soil B23- Oc0044761 Oct 17, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Ammonium Ion (as N)	5	mg/kg	44	51	28	13
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	510	430	710	870
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	5.3	6.5	6.0	10
Total Organic Carbon	0.1	%	0.4	1.2	1.1	< 0.1
Particle Size Distribution			See Attached	See Attached	See Attached	See Attached
Sample Properties						
% Moisture	1	%	7.9	7.5	6.7	20
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	33
TRH C15-C28	50	mg/kg	140	140	130	210
TRH C29-C36	50	mg/kg	130	100	97	130
TRH C10-C36 (Total)	50	mg/kg	270	240	227	373
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	61
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	< 20	< 20
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	61
TRH >C16-C34	100	mg/kg	230	200	190	280
TRH >C34-C40	100	mg/kg	100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	330	200	190	341
Alkalinity (speciated)						
Total Alkalinity (as CaCO3)	50	mg/kg	< 50	< 50	< 50	340
Cation Exchange Capacity						
Cation Exchange Capacity*	0.5	meq/100g	5.5	5.4	6.1	28
Acid Sulfate Soils Field pH Test						
pH-F (Field pH test)*	0.1	pH Units	6.0	6.7	5.8	8.6
pH-FOX (Field pH Peroxide test)*	0.1	pH Units	4.2	3.7	4.1	7.6
Reaction Ratings ^{S05}	0	-	4.0	4.0	4.0	4.0

Client Sample ID			B3-2 Soil B23- Oc0044773 Oct 17, 2023	B3-3 Soil B23- Oc0044774 Oct 17, 2023
Sample Matrix				
Eurofins Sample No.				
Date Sampled				
Test/Reference	LOR	Unit		
Ammonium Ion (as N)	5	mg/kg	13	13
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	780	690
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	9.5	9.4
Total Organic Carbon	0.1	%	< 0.1	0.2
Particle Size Distribution			See Attached	See Attached
Sample Properties				
% Moisture	1	%	22	21

Client Sample ID			B3-2	B3-3
Sample Matrix			Soil	Soil
Eurofins Sample No.			B23- Oc0044773	B23- Oc0044774
Date Sampled			Oct 17, 2023	Oct 17, 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	29	29
TRH C15-C28	50	mg/kg	190	170
TRH C29-C36	50	mg/kg	100	99
TRH C10-C36 (Total)	50	mg/kg	319	298
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	61	59
TRH C6-C10	20	mg/kg	< 20	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
TRH >C10-C16	50	mg/kg	61	59
TRH >C16-C34	100	mg/kg	240	210
TRH >C34-C40	100	mg/kg	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	301	269
Alkalinity (speciated)				
Total Alkalinity (as CaCO ₃)	50	mg/kg	130	240
Cation Exchange Capacity				
Cation Exchange Capacity*	0.5	meq/100g	23	28
Acid Sulfate Soils Field pH Test				
pH-F (Field pH test)*	0.1	pH Units	9.7	10
pH-FOX (Field pH Peroxide test)*	0.1	pH Units	8.1	8.0
Reaction Ratings ^{S05}	0	-	4.0	4.0

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
Extractable Organofluorine (EOF)* - Method: LTM-ORG-2380 Determination of Total Organofluorine by Combustion Ion Chromatography (CIC)	Brisbane	Oct 20, 2023	28 Days
Ammonium Ion (as N) - Method: APHA 4500-NH3 Ammonia Nitrogen by FIA	Melbourne	Oct 23, 2023	7 Days
pH (1:5 Aqueous extract at 25 °C as rec.) - Method: LTM-GEN-7090 pH in water by ISE	Brisbane	Oct 20, 2023	7 Days
Total Organic Carbon - Method: LTM-INO-4060 Total Organic Carbon in water and soil	Melbourne	Oct 23, 2023	28 Days
Alkalinity (speciated) - Method: LTM-INO-4250 Alkalinity by Electrometric Titration	Melbourne	Oct 23, 2023	14 Days
Acid Sulfate Soils Field pH Test - Method: LTM-GEN-7060 Determination of field pH (pHF) and field pH peroxide (pHFOX) tests	Brisbane	Oct 20, 2023	7 Days
Conductivity (1:5 aqueous extract at 25 °C as rec.) - Method: LTM-INO-4030 Conductivity	Melbourne	Oct 23, 2023	7 Days
Cation Exchange Capacity - Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage	Melbourne	Oct 25, 2023	28 Days
% Moisture - Method: LTM-GEN-7080 Moisture	Brisbane	Oct 19, 2023	14 Days
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Oct 20, 2023	28 Days
Perfluoroalkyl sulfonamido substances - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Oct 20, 2023	28 Days
Perfluoroalkyl sulfonic acids (PFSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Oct 20, 2023	28 Days
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Oct 20, 2023	28 Days
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Brisbane	Oct 20, 2023	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Brisbane	Oct 20, 2023	14 Days
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Brisbane	Oct 20, 2023	14 Days

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Company Name:	ADE Consulting Group QLD	Order No.:		Received:	Oct 19, 2023 3:20 PM
Address:	10/53 Metroplex Ave Murarrie QLD 4172	Report #:	1036504	Due:	Oct 23, 2023
		Phone:	1300 796 922	Priority:	2 Day
		Fax:		Contact Name:	Matthew Toole
Project Name:	A103021.1540.00				
Project ID:	A103021.1540.00				

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Ammonium Ion (as N)	Extractable Organofluorine (EOF)*	HOLD	Particle Size Distribution	pH (1:5 Aqueous extract at 25 °C as rec.)	Total Alkalinity (as CaCO3)	Total Organic Carbon	Total Oxidisable Precursor	Acid Sulfate Soils Field pH Test	AUS Leaching Procedure	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254						X					X	X					X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X		X			X	X	X	X		X	X
External Laboratory									X										
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID														
1	B1-1	Oct 16, 2023		Soil	B23-Oc0044704		X									X			X
2	B1-1	Oct 16, 2023		TOP - Soil	B23-Oc0044705								X			X			X
3	B1-1	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044706								X		X				X
4	B1-2	Oct 16, 2023		Soil	B23-Oc0044707		X									X			X
5	B1-2	Oct 16, 2023		TOP - Soil	B23-Oc0044708								X			X			X
6	B1-2	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044709								X		X				X
7	B1-3	Oct 16, 2023		Soil	B23-Oc0044710		X									X			X
8	B1-3	Oct 16, 2023		TOP - Soil	B23-Oc0044711								X			X			X
9	B1-3	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044712								X		X				X
10	B1-4	Oct 16, 2023		Soil	B23-Oc0044713		X									X			X

Company Name: ADE Consulting Group QLD
Address: 10/53 Metroplex Ave
Murarrie
QLD 4172

Project Name: A103021.1540.00
Project ID: A103021.1540.00

Order No.:
Report #: 1036504
Phone: 1300 796 922
Fax:

Received: Oct 19, 2023 3:20 PM
Due: Oct 23, 2023
Priority: 2 Day
Contact Name: Matthew Toole

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Ammonium Ion (as N)	Extractable Organofluorine (EOF)*	HOLD	Particle Size Distribution	pH (1:5 Aqueous extract at 25 °C as rec.)	Total Alkalinity (as CaCO3)	Total Organic Carbon	Total Oxidisable Precursor	Acid Sulfate Soils Field pH Test	AUS Leaching Procedure	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254						X					X	X					X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X		X			X	X	X	X		X	X
11	B1-4	Oct 16, 2023		TOP - Soil	B23-Oc0044714								X			X			X
12	B1-4	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044715								X		X				X
13	B2-1	Oct 16, 2023		Soil	B23-Oc0044716		X									X			X
14	B2-1	Oct 16, 2023		TOP - Soil	B23-Oc0044717								X			X			X
15	B2-1	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044718								X		X				X
16	B2-2	Oct 16, 2023		Soil	B23-Oc0044719		X									X			X
17	B2-2	Oct 16, 2023		TOP - Soil	B23-Oc0044720								X			X			X
18	B2-2	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044721								X		X				X
19	B2-3	Oct 16, 2023		Soil	B23-Oc0044722		X									X			X
20	B2-3	Oct 16, 2023		TOP - Soil	B23-Oc0044723								X			X			X
21	B2-3	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044724								X		X				X
22	B2-4	Oct 16, 2023		Soil	B23-Oc0044725		X									X			X

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Murarrie
QLD 4172

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Project ID: A103021.1540.00

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Report #: 1036504
Phone: 1300 796 922
Fax:

Received: Oct 19, 2023 3:20 PM
Due: Oct 23, 2023
Priority: 2 Day
Contact Name: Matthew Toole

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Ammonium Ion (as N)	Extractable Organofluorine (EOF)*	HOLD	Particle Size Distribution	pH (1:5 Aqueous extract at 25 °C as rec.)	Total Alkalinity (as CaCO3)	Total Organic Carbon	Total Oxidisable Precursor	Acid Sulfate Soils Field pH Test	AUS Leaching Procedure	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254						X					X	X					X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X		X			X	X	X	X		X	X
23	B2-4	Oct 16, 2023		TOP - Soil	B23-Oc0044726								X			X			X
24	B2-4	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044727								X		X				X
25	B3-1	Oct 16, 2023		Soil	B23-Oc0044728		X									X			X
26	B3-1	Oct 16, 2023		TOP - Soil	B23-Oc0044729								X			X			X
27	B3-1	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044730								X		X				X
28	B3-2	Oct 16, 2023		Soil	B23-Oc0044731		X									X			X
29	B3-2	Oct 16, 2023		TOP - Soil	B23-Oc0044732								X			X			X
30	B3-2	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044733								X		X				X
31	B3-3	Oct 16, 2023		Soil	B23-Oc0044734		X									X			X
32	B3-3	Oct 16, 2023		TOP - Soil	B23-Oc0044735								X			X			X
33	B3-3	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044736								X		X				X
34	B3-4	Oct 16, 2023		Soil	B23-Oc0044737		X									X			X

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Melbourne Laboratory - NATA # 1261 Site # 1254						X					X	X					X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X		X			X	X	X	X		X	X
35	B3-4	Oct 16, 2023		TOP - Soil	B23-Oc0044738								X			X			X
36	B3-4	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044739								X		X				X
37	B1-6	Oct 16, 2023		Soil	B23-Oc0044740		X									X			X
38	B1-6	Oct 16, 2023		TOP - Soil	B23-Oc0044741								X			X			X
39	B1-6	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044742								X		X				X
40	QC01	Oct 17, 2023		Soil	B23-Oc0044743											X			X
41	QC01	Oct 17, 2023		AUS Leachate - TOP	B23-Oc0044744								X		X				X
42	B2-6	Oct 17, 2023		Soil	B23-Oc0044745		X									X			X
43	B2-6	Oct 17, 2023		TOP - Soil	B23-Oc0044746								X			X			X
44	B2-6	Oct 17, 2023		AUS Leachate - TOP	B23-Oc0044747								X		X				X
45	QC03	Oct 17, 2023		Soil	B23-Oc0044748											X			X
46	QC03	Oct 17, 2023		AUS Leachate	B23-Oc0044749								X		X				X

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Melbourne Laboratory - NATA # 1261 Site # 1254					X					X	X					X		
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X		X			X	X	X	X		X	X
				- TOP														
47	B3-6	Oct 17, 2023		Soil	B23-Oc0044750	X									X			X
48	B3-6	Oct 17, 2023		TOP - Soil	B23-Oc0044751							X			X			X
49	B3-6	Oct 17, 2023		AUS Leachate - TOP	B23-Oc0044752							X		X				X
50	QC05	Oct 17, 2023		Soil	B23-Oc0044753										X			X
51	QC05	Oct 17, 2023		AUS Leachate - TOP	B23-Oc0044754							X		X				X
52	B1-1	Oct 17, 2023		Soil	B23-Oc0044755	X		X	X	X	X		X		X	X	X	
53	B1-2	Oct 17, 2023		Soil	B23-Oc0044756	X		X	X	X	X		X		X	X	X	
54	B1-3	Oct 17, 2023		Soil	B23-Oc0044757	X		X	X	X	X		X		X	X	X	
55	B2-1	Oct 17, 2023		Soil	B23-Oc0044758	X		X	X	X	X		X		X	X	X	
56	B2-2	Oct 17, 2023		Soil	B23-Oc0044759	X		X	X	X	X		X		X	X	X	
57	B2-3	Oct 17, 2023		Soil	B23-Oc0044760	X		X	X	X	X		X		X	X	X	
58	B3-1	Oct 17, 2023		Soil	B23-Oc0044761	X		X	X	X	X		X		X	X	X	

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Melbourne Laboratory - NATA # 1261 Site # 1254						X					X	X					X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X		X			X	X	X	X		X	X
59	B1-5	Oct 16, 2023		Soil	B23-Oc0044762			X											
60	B2-5	Oct 16, 2023		Soil	B23-Oc0044763			X											
61	B3-5	Oct 16, 2023		Soil	B23-Oc0044764			X											
62	B1-4	Oct 17, 2023		Soil	B23-Oc0044765			X											
63	B1-5	Oct 17, 2023		Soil	B23-Oc0044766			X											
64	QC07	Oct 17, 2023		Soil	B23-Oc0044767			X											
65	QC08	Oct 17, 2023		Soil	B23-Oc0044768			X											
66	B2-4	Oct 17, 2023		Soil	B23-Oc0044769			X											
67	B2-5	Oct 17, 2023		Soil	B23-Oc0044770			X											
68	QC09	Oct 17, 2023		Soil	B23-Oc0044771			X											
69	QC10	Oct 17, 2023		Soil	B23-Oc0044772			X											
70	B3-2	Oct 17, 2023		Soil	B23-Oc0044773	X			X	X	X	X		X		X	X	X	
71	B3-3	Oct 17, 2023		Soil	B23-Oc0044774	X			X	X	X	X		X		X	X	X	
72	B3-4	Oct 17, 2023		Soil	B23-Oc0044775			X											
73	B3-5	Oct 17, 2023		Soil	B23-Oc0044776			X											



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Melbourne Laboratory - NATA # 1261 Site # 1254						X					X	X					X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X		X			X	X	X	X		X	X
74	QC11	Oct 17, 2023		Soil	B23-Oc0044777			X											
75	QC12	Oct 17, 2023		Soil	B23-Oc0044778			X											
76	QC13	Oct 17, 2023		Soil	B23-Oc0044779			X											
77	QC14	Oct 17, 2023		Soil	B23-Oc0044780			X											
78	QC15	Oct 17, 2023		Soil	B23-Oc0044781			X											
79	QC16	Oct 17, 2023		Soil	B23-Oc0044782			X											
80	QC17	Oct 17, 2023		Soil	B23-Oc0044783			X											
81	QC18	Oct 17, 2023		Soil	B23-Oc0044784			X											
Test Counts						9	15	21	9	9	9	9	33	9	18	42	9	9	51

Internal Quality Control Review and Glossary

General

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

Holding Times

Please refer to the '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 before sample receipt deadlines as stated on the SRA.

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

Holding times apply from the date of sampling; therefore, compliance with 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, 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
CEC	Cation Exchange Capacity
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 moisture has been determined on a solid sample, the result is expressed on a dry weight 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 represents 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 (<i>bis</i> -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. SVOCs recoveries 20 – 150%

PFAS field samples that contain surrogate recoveries above 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

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Organic Carbon	%	< 0.1			0.1	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTriDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSA's)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
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							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
Method Blank							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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							
Alkalinity (speciated)							
Total Alkalinity (as CaCO ₃)	mg/kg	< 50			50	Pass	
Method Blank							
Cation Exchange Capacity							
Cation Exchange Capacity*	meq/100g	< 0.5			0.5	Pass	
LCS - % Recovery							
Conductivity (1:5 aqueous extract at 25 °C as rec.)	%	93			70-130	Pass	
Total Organic Carbon	%	101			70-130	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	87			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	87			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	90			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	76			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	86			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	95			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	92			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	101			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	102			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	90			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	93			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	106			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	109			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	99			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	95			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	82			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	97			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	100			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	98			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	90			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	93			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	87			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	94			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	102			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	88			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	80			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	91			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	96			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	104			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	95			50-150	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	109			70-130	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C10-C14			%	70			70-130	Pass	
LCS - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions									
TRH C6-C10			%	109			70-130	Pass	
LCS - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions									
TRH >C10-C16			%	72			70-130	Pass	
LCS - % Recovery									
Alkalinity (speciated)									
Total Alkalinity (as CaCO3)			%	115			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	S23-Se0058788	NCP	%	87			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	S23-Se0058788	NCP	%	81			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	S23-Se0058788	NCP	%	92			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	S23-Se0058788	NCP	%	75			50-150	Pass	
Perfluorooctanoic acid (PFOA)	S23-Se0058788	NCP	%	88			50-150	Pass	
Perfluorononanoic acid (PFNA)	S23-Se0058788	NCP	%	93			50-150	Pass	
Perfluorodecanoic acid (PFDA)	S23-Se0058788	NCP	%	96			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	S23-Se0058788	NCP	%	96			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	S23-Se0058788	NCP	%	102			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	S23-Se0058788	NCP	%	91			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S23-Se0058788	NCP	%	88			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	S23-Se0058788	NCP	%	100			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S23-Se0058788	NCP	%	110			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S23-Se0058788	NCP	%	103			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	S23-Se0058788	NCP	%	88			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	S23-Se0058788	NCP	%	79			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S23-Se0058788	NCP	%	90			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S23-Se0058788	NCP	%	90			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSA's)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	S23-Se0058788	NCP	%	108			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	S23-Se0058788	NCP	%	80			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S23-Se0058788	NCP	%	89			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S23-Se0058788	NCP	%	91			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S23-Se0058788	NCP	%	92			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S23-Se0058788	NCP	%	114			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorooctanesulfonic acid (PFOS)	S23-Se0058788	NCP	%	89			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	S23-Se0058788	NCP	%	80			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S23-Se0058788	NCP	%	94			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	S23-Se0058788	NCP	%	82			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S23-Se0058788	NCP	%	92			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S23-Se0058788	NCP	%	85			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	B23-Oc0044735	CP	%	102			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	B23-Oc0044735	CP	%	96			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	B23-Oc0044735	CP	%	92			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	B23-Oc0044735	CP	%	94			50-150	Pass	
Perfluorooctanoic acid (PFOA)	B23-Oc0044735	CP	%	92			50-150	Pass	
Perfluorononanoic acid (PFNA)	B23-Oc0044735	CP	%	82			50-150	Pass	
Perfluorodecanoic acid (PFDA)	B23-Oc0044735	CP	%	85			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	B23-Oc0044735	CP	%	77			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	B23-Oc0044735	CP	%	68			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	B23-Oc0044735	CP	%	57			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	B23-Oc0044735	CP	%	56			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	B23-Oc0044735	CP	%	87			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Oc0044735	CP	%	67			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Oc0044735	CP	%	62			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Oc0044735	CP	%	57			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Oc0044735	CP	%	72			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Oc0044735	CP	%	74			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Oc0044735	CP	%	73			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSA)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	B23-Oc0044735	CP	%	91			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	B23-Oc0044735	CP	%	82			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	B23-Oc0044735	CP	%	83			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	B23-Oc0044735	CP	%	104			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorohexanesulfonic acid (PFHxS)	B23-Oc0044735	CP	%	109			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	B23-Oc0044735	CP	%	90			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	B23-Oc0044735	CP	%	62			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	B23-Oc0044735	CP	%	66			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Oc0044735	CP	%	78			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	B23-Oc0044735	CP	%	86			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Oc0044735	CP	%	80			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Oc0044735	CP	%	63			50-150	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	B23-Oc0044755	CP	%	90			70-130	Pass	
TRH C10-C14	B23-Oc0029848	NCP	%	126			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH C6-C10	B23-Oc0044755	CP	%	90			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	B23-Oc0029848	NCP	%	126			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	B23-Oc0044713	CP	%	28	27	3.4	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	B23-Oc0044714	CP	ug/kg	81	67	19	30%	Pass	
Perfluoropentanoic acid (PFPeA)	B23-Oc0044714	CP	ug/kg	190	150	29	30%	Pass	
Perfluorohexanoic acid (PFHxA)	B23-Oc0044714	CP	ug/kg	93	77	19	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	B23-Oc0044714	CP	ug/kg	23	17	26	30%	Pass	
Perfluorooctanoic acid (PFOA)	B23-Oc0044714	CP	ug/kg	6.8	5.2	27	30%	Pass	
Perfluorononanoic acid (PFNA)	B23-Oc0044714	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	B23-Oc0044714	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	B23-Oc0044714	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	B23-Oc0044714	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	B23-Oc0044714	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	B23-Oc0044714	CP	ug/kg	< 5	< 5	<1	30%	Pass	

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	B23-Oc0044714	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Oc0044714	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Oc0044714	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Oc0044714	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Oc0044714	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Oc0044714	CP	ug/kg	< 10	< 10	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Oc0044714	CP	ug/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA's)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	B23-Oc0044714	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	B23-Oc0044714	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	B23-Oc0044714	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	B23-Oc0044714	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	B23-Oc0044714	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	B23-Oc0044714	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	B23-Oc0044714	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	B23-Oc0044714	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Oc0044714	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Oc0044714	CP	ug/kg	< 10	< 10	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Oc0044714	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Oc0044714	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	B23-Oc0044719	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	B23-Oc0044719	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	B23-Oc0044719	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	B23-Oc0044719	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	B23-Oc0044719	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanoic acid (PFNA)	B23-Oc0044719	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	B23-Oc0044719	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	B23-Oc0044719	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	B23-Oc0044719	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	B23-Oc0044719	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	B23-Oc0044719	CP	ug/kg	< 5	< 5	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	B23-Oc0044719	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Oc0044719	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Oc0044719	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Oc0044719	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Oc0044719	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Oc0044719	CP	ug/kg	< 10	< 10	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Oc0044719	CP	ug/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFASs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	B23-Oc0044719	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	B23-Oc0044719	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	B23-Oc0044719	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	B23-Oc0044719	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	B23-Oc0044719	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	B23-Oc0044719	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	B23-Oc0044719	CP	ug/kg	11	10	9.3	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	B23-Oc0044719	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Oc0044719	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Oc0044719	CP	ug/kg	< 10	< 10	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Oc0044719	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Oc0044719	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B23-Oc0044728	CP	%	19	21	9.5	30%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B23-Oc0044743	CP	%	25	27	7.7	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	B23-Oc0044751	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	B23-Oc0044751	CP	ug/kg	5.8	6.5	11	30%	Pass
Perfluorohexanoic acid (PFHxA)	B23-Oc0044751	CP	ug/kg	5.3	5.3	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	B23-Oc0044751	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	B23-Oc0044751	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanoic acid (PFNA)	B23-Oc0044751	CP	ug/kg	< 5	< 5	<1	30%	Pass

Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorodecanoic acid (PFDA)	B23-Oc0044751	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	B23-Oc0044751	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	B23-Oc0044751	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	B23-Oc0044751	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	B23-Oc0044751	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	B23-Oc0044751	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Oc0044751	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Oc0044751	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Oc0044751	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Oc0044751	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Oc0044751	CP	ug/kg	< 10	< 10	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Oc0044751	CP	ug/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	B23-Oc0044751	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	B23-Oc0044751	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	B23-Oc0044751	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	B23-Oc0044751	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	B23-Oc0044751	CP	ug/kg	7.4	6.5	14	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	B23-Oc0044751	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	B23-Oc0044751	CP	ug/kg	68	70	2.8	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	B23-Oc0044751	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Oc0044751	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Oc0044751	CP	ug/kg	< 10	< 10	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Oc0044751	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Oc0044751	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
Ammonium Ion (as N)	B23-Se0069913	NCP	mg/kg	13	13	<1	30%	Pass
Conductivity (1:5 aqueous extract at 25 °C as rec.)	M23-Oc0045034	NCP	uS/cm	240	270	9.5	30%	Pass
Total Organic Carbon	L23-Oc0030525	NCP	%	< 0.1	< 0.1	<1	30%	Pass

Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C10-C14	B23-Oc0029860	NCP	mg/kg	< 20	< 20	<1	30%	Pass
TRH C15-C28	B23-Oc0029860	NCP	mg/kg	67	57	16	30%	Pass
TRH C29-C36	B23-Oc0029860	NCP	mg/kg	72	95	27	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
TRH >C10-C16	B23-Oc0029860	NCP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	B23-Oc0029860	NCP	mg/kg	110	110	4.1	30%	Pass
Duplicate								
Cation Exchange Capacity				Result 1	Result 2	RPD		
Cation Exchange Capacity*	B23-Oc0044755	CP	meq/100g	64	67	4.9	30%	Pass
Duplicate								
Acid Sulfate Soils Field pH Test				Result 1	Result 2	RPD		
pH-F (Field pH test)*	B23-Oc0044757	CP	pH Units	11	10	pass	20%	Pass
Duplicate								
Sample Properties				Result 1	Result 2	RPD		
% Moisture	B23-Oc0044758	CP	%	7.9	7.0	11	30%	Pass
Duplicate								
Acid Sulfate Soils Field pH Test				Result 1	Result 2	RPD		
pH-F (Field pH test)*	B23-Oc0044760	CP	pH Units	5.8	5.8	pass	20%	Pass
Duplicate								
				Result 1	Result 2	RPD		
pH (1:5 Aqueous extract at 25 °C as rec.)	B23-Oc0044774	CP	pH Units	9.4	9.6	1.8	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C6-C9	B23-Oc0044774	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
Naphthalene	B23-Oc0044774	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
TRH C6-C10	B23-Oc0044774	CP	mg/kg	< 20	< 20	<1	30%	Pass

Comments

Analysis of PSD has been completed by East West, NATA Accreditation Number 12360, report reference EW231874.

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.
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.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q09	The Surrogate recovery is outside of the recommended acceptance criteria due to matrix interference. Acceptance criteria were met for all other QC
S05	Field Screen uses the following fizz rating to classify the rate the samples reacted to the peroxide: 1.0; No reaction to slight. 2.0; Moderate reaction. 3.0; Strong reaction with persistent froth. 4.0; Extreme reaction.

Authorised by:

Zoe Flynn	Analytical Services Manager
Caitlin Breeze	Senior Analyst-Inorganic
Emily Rosenberg	Senior Analyst-Metal
Jonathon Angell	Senior Analyst-Inorganic
Jonathon Angell	Senior Analyst-Organic
Jonathon Angell	Senior Analyst-Sample Properties
Jonathon Angell	Senior Analyst-SPOCAS
Jonathon Angell	Senior Analyst-Volatile
Mary Makarios	Senior Analyst-Inorganic
Sarah McCallion	Senior Analyst-PFAS



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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Murarrie
QLD 4172



NATA Accredited
Accreditation Number 1261
Site Number 20794

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: **Matthew Toole**

Report **1036504-L**
Project name **A103021.1540.00**
Project ID **A103021.1540.00**
Received Date **Oct 19, 2023**

Client Sample ID			B1-1 AUS Leachate - TOP B23- Oc0044706 Oct 16, 2023	B1-2 AUS Leachate - TOP B23- Oc0044709 Oct 16, 2023	B1-3 AUS Leachate - TOP B23- Oc0044712 Oct 16, 2023	B1-4 AUS Leachate - TOP B23- Oc0044715 Oct 16, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	7.0	7.0	7.0	7.0
pH (off)	0.1	pH Units	11	11	11	11
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	2.7	2.3	3.8	3.2
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	7.1	8.9	10	8.1
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	3.1	4.3	3.5	3.6
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	0.96	1.5	1.0	1.2
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	0.14	0.24	0.16	0.20
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	0.03	0.05	0.03	0.04
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTeDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	41	70	30	68
13C5-PFPeA (surr.)	1	%	82	57	59	75
13C5-PFHxA (surr.)	1	%	89	INT	INT	82
13C4-PFHpA (surr.)	1	%	68	38	24	54
13C8-PFOA (surr.)	1	%	73	93	80	60
13C5-PFNA (surr.)	1	%	72	96	81	55
13C6-PFDA (surr.)	1	%	52	72	67	41
13C2-PFUnDA (surr.)	1	%	57	79	75	41
13C2-PFDoDA (surr.)	1	%	54	78	74	40
13C2-PFTeDA (surr.)	1	%	47	61	58	40
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			B1-1 AUS Leachate - TOP B23- Oc0044706 Oct 16, 2023	B1-2 AUS Leachate - TOP B23- Oc0044709 Oct 16, 2023	B1-3 AUS Leachate - TOP B23- Oc0044712 Oct 16, 2023	B1-4 AUS Leachate - TOP B23- Oc0044715 Oct 16, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	63	84	80	50
D3-N-MeFOSA (surr.)	1	%	92	154	143	73
D5-N-EtFOSA (surr.)	1	%	97	173	163	81
D7-N-MeFOSE (surr.)	1	%	51	63	65	47
D9-N-EtFOSE (surr.)	1	%	53	67	66	49
D5-N-EtFOSAA (surr.)	1	%	55	72	73	51
D3-N-MeFOSAA (surr.)	1	%	56	71	69	38
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	73	41	18	63
18O2-PFHxS (surr.)	1	%	78	89	82	64
13C8-PFOS (surr.)	1	%	62	80	79	52
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	44	INT	INT	60
13C2-6:2 FTSA (surr.)	1	%	57	66	66	73
13C2-8:2 FTSA (surr.)	1	%	56	79	71	46
13C2-10:2 FTSA (surr.)	1	%	54	69	65	38
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.14	0.24	0.16	0.2
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.14	0.24	0.16	0.2
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	14	17.24	18.46	16.3
Sum of PFASs (n=30)*	0.1	ug/L	14.03	17.29	18.49	16.34

Client Sample ID			B2-1 AUS Leachate - TOP B23- Oc0044718 Oct 16, 2023	B2-2 AUS Leachate - TOP B23- Oc0044721 Oct 16, 2023	B2-3 AUS Leachate - TOP B23- Oc0044724 Oct 16, 2023	B2-4 AUS Leachate - TOP B23- Oc0044727 Oct 16, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	7.0	7.0	7.0	7.0
pH (off)	0.1	pH Units	6.5	5.7	6.6	6.4
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	1.7	1.3	2.3	0.90
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	4.0	2.6	2.4	2.1
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	2.1	1.5	2.5	1.2
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	1.8	1.0	2.2	0.95
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	0.61	0.39	0.85	0.41
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	0.12	0.07	0.18	0.08
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTeDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	52	50	26	38
13C5-PFPeA (surr.)	1	%	75	79	57	53
13C5-PFHxA (surr.)	1	%	83	87	63	64
13C4-PFHpA (surr.)	1	%	56	63	41	57
13C8-PFOA (surr.)	1	%	71	74	91	68
13C5-PFNA (surr.)	1	%	65	72	86	65
13C6-PFDA (surr.)	1	%	52	54	70	47
13C2-PFUnDA (surr.)	1	%	48	53	75	47
13C2-PFDoDA (surr.)	1	%	46	47	65	48
13C2-PFTeDA (surr.)	1	%	43	44	47	37
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	54	56	78	48
D3-N-MeFOSA (surr.)	1	%	84	89	127	74
D5-N-EtFOSA (surr.)	1	%	98	90	142	79
D7-N-MeFOSE (surr.)	1	%	46	58	55	41
D9-N-EtFOSE (surr.)	1	%	54	53	56	43
D5-N-EtFOSAA (surr.)	1	%	52	51	68	42
D3-N-MeFOSAA (surr.)	1	%	48	52	70	43

Client Sample ID			B2-1	B2-2	B2-3	B2-4
Sample Matrix			AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP
Eurofins Sample No.			B23-Oc0044718	B23-Oc0044721	B23-Oc0044724	B23-Oc0044727
Date Sampled			Oct 16, 2023	Oct 16, 2023	Oct 16, 2023	Oct 16, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	^{N09} 0.02	^{N09} 0.02	^{N09} 0.02	^{N09} 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	^{N09} 0.02	^{N09} 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	68	71	11	74
18O2-PFHxS (surr.)	1	%	75	76	89	69
13C8-PFOS (surr.)	1	%	59	60	78	56
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	84	81	INT	35
13C2-6:2 FTSA (surr.)	1	%	53	58	81	44
13C2-8:2 FTSA (surr.)	1	%	53	57	89	47
13C2-10:2 FTSA (surr.)	1	%	60	49	71	41
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.04	0.03	0.02	0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.63	0.4	0.85	0.41
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.65	0.42	0.87	0.42
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	10.25	6.82	10.27	5.57
Sum of PFASs (n=30)*	0.1	ug/L	10.37	6.89	10.45	5.65

Client Sample ID			B3-1	B3-2	B3-3	B3-4
Sample Matrix			AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP
Eurofins Sample No.			B23-Oc0044730	B23-Oc0044733	B23-Oc0044736	B23-Oc0044739
Date Sampled			Oct 16, 2023	Oct 16, 2023	Oct 16, 2023	Oct 16, 2023
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	7.0	7.0	7.0	7.0
pH (off)	0.1	pH Units	9.4	9.7	10	10.0
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.5	0.20	0.30	0.18
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	1.0	0.40	0.35	0.27
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	0.80	0.51	0.53	0.49
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	0.82	0.15	0.23	0.13
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	0.43	0.13	0.14	0.11

Client Sample ID			B3-1 AUS Leachate - TOP B23- Oc0044730 Oct 16, 2023	B3-2 AUS Leachate - TOP B23- Oc0044733 Oct 16, 2023	B3-3 AUS Leachate - TOP B23- Oc0044736 Oct 16, 2023	B3-4 AUS Leachate - TOP B23- Oc0044739 Oct 16, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	0.07	0.01	0.02	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	0.02
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	34	42	73	34
13C5-PFPeA (surr.)	1	%	72	59	33	69
13C5-PFHxA (surr.)	1	%	63	69	84	75
13C4-PFHpA (surr.)	1	%	43	62	76	70
13C8-PFOA (surr.)	1	%	82	69	84	82
13C5-PFNA (surr.)	1	%	73	57	87	76
13C6-PFDA (surr.)	1	%	63	46	63	56
13C2-PFUnDA (surr.)	1	%	71	49	68	56
13C2-PFDoDA (surr.)	1	%	60	44	64	48
13C2-PFTeDA (surr.)	1	%	51	41	52	44
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	72	51	72	59
D3-N-MeFOSA (surr.)	1	%	118	78	121	87
D5-N-EtFOSA (surr.)	1	%	132	87	137	93
D7-N-MeFOSE (surr.)	1	%	56	45	59	46
D9-N-EtFOSE (surr.)	1	%	57	45	59	52
D5-N-EtFOSAA (surr.)	1	%	62	44	65	46
D3-N-MeFOSAA (surr.)	1	%	67	46	64	56
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	0.02	0.02	0.02
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	0.11	0.02	0.02	0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	^{N09} 0.07	^{N09} 0.07	^{N09} 0.09	^{N09} 0.05
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	^{N09} 0.03	^{N09} 0.02	^{N09} 0.02	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	0.01
13C3-PFBS (surr.)	1	%	35	69	80	79
18O2-PFHxS (surr.)	1	%	82	72	85	77
13C8-PFOS (surr.)	1	%	65	54	72	65

Client Sample ID			B3-1 AUS Leachate - TOP B23- Oc0044730 Oct 16, 2023	B3-2 AUS Leachate - TOP B23- Oc0044733 Oct 16, 2023	B3-3 AUS Leachate - TOP B23- Oc0044736 Oct 16, 2023	B3-4 AUS Leachate - TOP B23- Oc0044739 Oct 16, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	0.01
13C2-4:2 FTSA (surr.)	1	%	INT	32	55	36
13C2-6:2 FTSA (surr.)	1	%	63	44	66	55
13C2-8:2 FTSA (surr.)	1	%	74	47	68	57
13C2-10:2 FTSA (surr.)	1	%	53	44	60	54
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.1	0.09	0.11	0.05
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.46	0.15	0.16	0.11
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.53	0.22	0.25	0.16
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	3.15	1.5	1.68	1.25
Sum of PFASs (n=30)*	0.1	ug/L	3.33	1.53	1.72	1.31

Client Sample ID			B1-6 AUS Leachate - TOP B23- Oc0044742 Oct 16, 2023	QC01 AUS Leachate - TOP B23- Oc0044744 Oct 17, 2023	B2-6 AUS Leachate - TOP B23- Oc0044747 Oct 17, 2023	QC03 AUS Leachate - TOP B23- Oc0044749 Oct 17, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	7.0	7.0	7.0	7.0
pH (off)	0.1	pH Units	11	11	6.7	6.5
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	1.3	4.1	1.7	2.0
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	5.5	9.5	3.5	4.2
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	3.8	4.1	2.4	2.5
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	1.5	1.3	2.3	2.0
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	0.33	0.27	0.85	0.83
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	0.07	0.05	0.17	0.16
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	47	48	35	43
13C5-PFPeA (surr.)	1	%	57	78	56	71
13C5-PFHxA (surr.)	1	%	33	88	62	75
13C4-PFHpA (surr.)	1	%	25	65	23	70
13C8-PFOA (surr.)	1	%	79	77	79	53
13C5-PFNA (surr.)	1	%	83	70	76	54

Client Sample ID			B1-6 AUS Leachate - TOP B23- Oc0044742 Oct 16, 2023	QC01 AUS Leachate - TOP B23- Oc0044744 Oct 17, 2023	B2-6 AUS Leachate - TOP B23- Oc0044747 Oct 17, 2023	QC03 AUS Leachate - TOP B23- Oc0044749 Oct 17, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C6-PFDA (surr.)	1	%	68	54	63	50
13C2-PFUnDA (surr.)	1	%	76	56	69	48
13C2-PFDoDA (surr.)	1	%	70	54	54	41
13C2-PFTeDA (surr.)	1	%	51	51	44	38
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	80	60	74	59
D3-N-MeFOSA (surr.)	1	%	137	93	118	69
D5-N-EtFOSA (surr.)	1	%	137	102	133	70
D7-N-MeFOSE (surr.)	1	%	62	55	55	49
D9-N-EtFOSE (surr.)	1	%	60	54	54	48
D5-N-EtFOSAA (surr.)	1	%	72	53	60	55
D3-N-MeFOSAA (surr.)	1	%	72	53	69	50
Perfluoroalkyl sulfonic acids (PFSA's)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	0.03	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	^{N09} < 0.01	< 0.01	^{N09} 0.02	^{N09} 0.02
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	^{N09} 0.02	^{N09} 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	32	72	31	71
18O2-PFHxS (surr.)	1	%	88	70	82	69
13C8-PFOS (surr.)	1	%	77	61	72	59
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	INT	85	INT	52
13C2-6:2 FTSA (surr.)	1	%	68	56	64	80
13C2-8:2 FTSA (surr.)	1	%	70	55	68	74
13C2-10:2 FTSA (surr.)	1	%	65	57	51	67

Client Sample ID			B1-6	QC01	B2-6	QC03
Sample Matrix			AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP
Eurofins Sample No.			B23- Oc0044742	B23- Oc0044744	B23- Oc0044747	B23- Oc0044749
Date Sampled			Oct 16, 2023	Oct 17, 2023	Oct 17, 2023	Oct 17, 2023
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	0.04	0.03
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.33	0.27	0.87	0.84
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.33	0.27	0.89	0.86
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	12.43	19.27	10.79	11.56
Sum of PFASs (n=30)*	0.1	ug/L	12.5	19.32	10.99	11.72

Client Sample ID			B3-6	QC05
Sample Matrix			AUS Leachate - TOP	AUS Leachate - TOP
Eurofins Sample No.			B23- Oc0044752	B23- Oc0044754
Date Sampled			Oct 17, 2023	Oct 17, 2023
Test/Reference	LOR	Unit		
AUS Leaching Procedure				
Leachate Fluid ^{C01}		comment	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	7.0	7.0
pH (off)	0.1	pH Units	9.9	9.9
Perfluoroalkyl carboxylic acids (PFCAs)				
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.5	0.18
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	0.31
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	0.70	0.47
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	0.19	0.15
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	0.19	0.12
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	0.02	0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	INT	40
13C5-PFPeA (surr.)	1	%	22	57
13C5-PFHxA (surr.)	1	%	40	64
13C4-PFHpA (surr.)	1	%	63	57
13C8-PFOA (surr.)	1	%	89	65
13C5-PFNA (surr.)	1	%	77	57
13C6-PFDA (surr.)	1	%	71	40
13C2-PFUnDA (surr.)	1	%	67	44
13C2-PFDoDA (surr.)	1	%	50	40
13C2-PFTeDA (surr.)	1	%	36	40
Perfluoroalkyl sulfonamido substances				
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05

Client Sample ID			B3-6	QC05
Sample Matrix			AUS Leachate - TOP	AUS Leachate - TOP
Eurofins Sample No.			B23-Oc0044752	B23-Oc0044754
Date Sampled			Oct 17, 2023	Oct 17, 2023
Test/Reference	LOR	Unit		
Perfluoroalkyl sulfonamido substances				
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	83	51
D3-N-MeFOSA (surr.)	1	%	127	74
D5-N-EtFOSA (surr.)	1	%	132	84
D7-N-MeFOSE (surr.)	1	%	66	38
D9-N-EtFOSE (surr.)	1	%	47	43
D5-N-EtFOSAA (surr.)	1	%	65	42
D3-N-MeFOSAA (surr.)	1	%	60	42
Perfluoroalkyl sulfonic acids (PFSA's)				
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	0.02	0.02
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	0.08	0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	^{N09} 0.23	^{N09} 0.06
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	0.02	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	^{N09} 2.7	^{N09} 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	26	73
18O2-PFHxS (surr.)	1	%	83	65
13C8-PFOS (surr.)	1	%	64	54
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	INT	26
13C2-6:2 FTSA (surr.)	1	%	72	38
13C2-8:2 FTSA (surr.)	1	%	94	39
13C2-10:2 FTSA (surr.)	1	%	59	33
PFASs Summations				
Sum (PFHxS + PFOS)*	0.01	ug/L	2.93	0.07
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	2.89	0.13
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	3.12	0.19
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	4.03	1.32
Sum of PFASs (n=30)*	0.1	ug/L	4.15	1.34

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
AUS Leaching Procedure	Brisbane	Oct 20, 2023	7 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Brisbane	Oct 20, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Brisbane	Oct 20, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Brisbane	Oct 20, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Brisbane	Oct 20, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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

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

Auckland	Christchurch	Tauranga
35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

Company Name: ADE Consulting Group QLD
Address: 10/53 Metroplex Ave
Murarrie
QLD 4172

Project Name: A103021.1540.00
Project ID: A103021.1540.00

Order No.:
Report #: 1036504
Phone: 1300 796 922
Fax:

Received: Oct 19, 2023 3:20 PM
Due: Oct 23, 2023
Priority: 2 Day
Contact Name: Matthew Toole

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Ammonium Ion (as N)	Extractable Organofluorine (EOF)*	HOLD	Particle Size Distribution	pH (1:5 Aqueous extract at 25 °C as rec.)	Total Alkalinity (as CaCO3)	Total Organic Carbon	Total Oxidisable Precursor	Acid Sulfate Soils Field pH Test	AUS Leaching Procedure	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254						X					X	X					X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X		X			X	X	X	X		X	X
External Laboratory									X										
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID														
1	B1-1	Oct 16, 2023		Soil	B23-Oc0044704		X									X			X
2	B1-1	Oct 16, 2023		TOP - Soil	B23-Oc0044705								X			X			X
3	B1-1	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044706								X		X				X
4	B1-2	Oct 16, 2023		Soil	B23-Oc0044707		X									X			X
5	B1-2	Oct 16, 2023		TOP - Soil	B23-Oc0044708								X			X			X
6	B1-2	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044709								X		X				X
7	B1-3	Oct 16, 2023		Soil	B23-Oc0044710		X									X			X
8	B1-3	Oct 16, 2023		TOP - Soil	B23-Oc0044711								X			X			X
9	B1-3	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044712								X		X				X
10	B1-4	Oct 16, 2023		Soil	B23-Oc0044713		X									X			X

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Melbourne Laboratory - NATA # 1261 Site # 1254						X					X	X					X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X		X			X	X	X	X		X	X
11	B1-4	Oct 16, 2023		TOP - Soil	B23-Oc0044714								X			X			X
12	B1-4	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044715								X		X				X
13	B2-1	Oct 16, 2023		Soil	B23-Oc0044716		X									X			X
14	B2-1	Oct 16, 2023		TOP - Soil	B23-Oc0044717								X			X			X
15	B2-1	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044718								X		X				X
16	B2-2	Oct 16, 2023		Soil	B23-Oc0044719		X									X			X
17	B2-2	Oct 16, 2023		TOP - Soil	B23-Oc0044720								X			X			X
18	B2-2	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044721								X		X				X
19	B2-3	Oct 16, 2023		Soil	B23-Oc0044722		X									X			X
20	B2-3	Oct 16, 2023		TOP - Soil	B23-Oc0044723								X			X			X
21	B2-3	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044724								X		X				X
22	B2-4	Oct 16, 2023		Soil	B23-Oc0044725		X									X			X

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Melbourne Laboratory - NATA # 1261 Site # 1254						X					X	X					X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X		X			X	X	X	X		X	X
23	B2-4	Oct 16, 2023		TOP - Soil	B23-Oc0044726								X			X			X
24	B2-4	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044727								X		X				X
25	B3-1	Oct 16, 2023		Soil	B23-Oc0044728		X									X			X
26	B3-1	Oct 16, 2023		TOP - Soil	B23-Oc0044729								X			X			X
27	B3-1	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044730								X		X				X
28	B3-2	Oct 16, 2023		Soil	B23-Oc0044731		X									X			X
29	B3-2	Oct 16, 2023		TOP - Soil	B23-Oc0044732								X			X			X
30	B3-2	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044733								X		X				X
31	B3-3	Oct 16, 2023		Soil	B23-Oc0044734		X									X			X
32	B3-3	Oct 16, 2023		TOP - Soil	B23-Oc0044735								X			X			X
33	B3-3	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044736								X		X				X
34	B3-4	Oct 16, 2023		Soil	B23-Oc0044737		X									X			X

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Melbourne Laboratory - NATA # 1261 Site # 1254						X					X	X					X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X		X			X	X	X	X		X	X
35	B3-4	Oct 16, 2023		TOP - Soil	B23-Oc0044738								X			X			X
36	B3-4	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044739								X		X				X
37	B1-6	Oct 16, 2023		Soil	B23-Oc0044740		X									X			X
38	B1-6	Oct 16, 2023		TOP - Soil	B23-Oc0044741								X			X			X
39	B1-6	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044742								X		X				X
40	QC01	Oct 17, 2023		Soil	B23-Oc0044743											X			X
41	QC01	Oct 17, 2023		AUS Leachate - TOP	B23-Oc0044744								X		X				X
42	B2-6	Oct 17, 2023		Soil	B23-Oc0044745		X									X			X
43	B2-6	Oct 17, 2023		TOP - Soil	B23-Oc0044746								X			X			X
44	B2-6	Oct 17, 2023		AUS Leachate - TOP	B23-Oc0044747								X		X				X
45	QC03	Oct 17, 2023		Soil	B23-Oc0044748											X			X
46	QC03	Oct 17, 2023		AUS Leachate	B23-Oc0044749								X		X				X

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Melbourne Laboratory - NATA # 1261 Site # 1254					X					X	X					X		
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X		X			X	X	X	X		X	X
				- TOP														
47	B3-6	Oct 17, 2023		Soil	B23-Oc0044750	X									X			X
48	B3-6	Oct 17, 2023		TOP - Soil	B23-Oc0044751							X			X			X
49	B3-6	Oct 17, 2023		AUS Leachate - TOP	B23-Oc0044752							X		X				X
50	QC05	Oct 17, 2023		Soil	B23-Oc0044753										X			X
51	QC05	Oct 17, 2023		AUS Leachate - TOP	B23-Oc0044754							X		X				X
52	B1-1	Oct 17, 2023		Soil	B23-Oc0044755	X		X	X	X	X		X		X	X	X	
53	B1-2	Oct 17, 2023		Soil	B23-Oc0044756	X		X	X	X	X		X		X	X	X	
54	B1-3	Oct 17, 2023		Soil	B23-Oc0044757	X		X	X	X	X		X		X	X	X	
55	B2-1	Oct 17, 2023		Soil	B23-Oc0044758	X		X	X	X	X		X		X	X	X	
56	B2-2	Oct 17, 2023		Soil	B23-Oc0044759	X		X	X	X	X		X		X	X	X	
57	B2-3	Oct 17, 2023		Soil	B23-Oc0044760	X		X	X	X	X		X		X	X	X	
58	B3-1	Oct 17, 2023		Soil	B23-Oc0044761	X		X	X	X	X		X		X	X	X	

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Melbourne Laboratory - NATA # 1261 Site # 1254						X					X	X					X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X		X			X	X	X	X		X	X
59	B1-5	Oct 16, 2023		Soil	B23-Oc0044762			X											
60	B2-5	Oct 16, 2023		Soil	B23-Oc0044763			X											
61	B3-5	Oct 16, 2023		Soil	B23-Oc0044764			X											
62	B1-4	Oct 17, 2023		Soil	B23-Oc0044765			X											
63	B1-5	Oct 17, 2023		Soil	B23-Oc0044766			X											
64	QC07	Oct 17, 2023		Soil	B23-Oc0044767			X											
65	QC08	Oct 17, 2023		Soil	B23-Oc0044768			X											
66	B2-4	Oct 17, 2023		Soil	B23-Oc0044769			X											
67	B2-5	Oct 17, 2023		Soil	B23-Oc0044770			X											
68	QC09	Oct 17, 2023		Soil	B23-Oc0044771			X											
69	QC10	Oct 17, 2023		Soil	B23-Oc0044772			X											
70	B3-2	Oct 17, 2023		Soil	B23-Oc0044773	X			X	X	X	X		X		X	X	X	
71	B3-3	Oct 17, 2023		Soil	B23-Oc0044774	X			X	X	X	X		X		X	X	X	
72	B3-4	Oct 17, 2023		Soil	B23-Oc0044775			X											
73	B3-5	Oct 17, 2023		Soil	B23-Oc0044776			X											

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Melbourne Laboratory - NATA # 1261 Site # 1254						X					X	X					X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X		X			X	X	X	X		X	X
74	QC11	Oct 17, 2023		Soil	B23-Oc0044777			X											
75	QC12	Oct 17, 2023		Soil	B23-Oc0044778			X											
76	QC13	Oct 17, 2023		Soil	B23-Oc0044779			X											
77	QC14	Oct 17, 2023		Soil	B23-Oc0044780			X											
78	QC15	Oct 17, 2023		Soil	B23-Oc0044781			X											
79	QC16	Oct 17, 2023		Soil	B23-Oc0044782			X											
80	QC17	Oct 17, 2023		Soil	B23-Oc0044783			X											
81	QC18	Oct 17, 2023		Soil	B23-Oc0044784			X											
Test Counts						9	15	21	9	9	9	9	33	9	18	42	9	9	51

Internal Quality Control Review and Glossary

General

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

Holding Times

Please refer to the '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 before sample receipt deadlines as stated on the SRA.

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

Holding times apply from the date of sampling; therefore, compliance with 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, 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
CEC	Cation Exchange Capacity
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 moisture has been determined on a solid sample, the result is expressed on a dry weight 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 represents 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 (<i>bis</i> -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. SVOCs recoveries 20 – 150%

PFAS field samples that contain surrogate recoveries above 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

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05			0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01			0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01			0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01			0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotridecanoic acid (PFTeDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05			0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05			0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05			0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/L	< 0.05			0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/L	< 0.05			0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05			0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSA's)							
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01			0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01			0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01			0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01			0.01	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/L	< 0.05			0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01			0.01	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	96			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	98			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	89			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	99			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	97			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	91			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	88			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	62			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	53			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	67			50-150	Pass	
LCS - % Recovery							

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroalkyl sulfonamido substances									
Perfluorooctane sulfonamide (FOSA)			%	94			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)			%	60			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)			%	54			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)			%	53			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)			%	52			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)			%	68			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)			%	75			50-150	Pass	
LCS - % Recovery									
Perfluoroalkyl sulfonic acids (PFASs)									
Perfluorobutanesulfonic acid (PFBS)			%	91			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)			%	69			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)			%	79			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)			%	102			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)			%	99			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)			%	85			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)			%	51			50-150	Pass	
LCS - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)									
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)			%	92			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)			%	102			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)			%	82			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)			%	54			50-150	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)									
				Result 1					
Perfluorobutanoic acid (PFBA)	B23-Oc0044709	CP	%	123			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	B23-Oc0044709	CP	%	107			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	B23-Oc0044709	CP	%	115			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	B23-Oc0044709	CP	%	129			50-150	Pass	
Perfluorooctanoic acid (PFOA)	B23-Oc0044709	CP	%	121			50-150	Pass	
Perfluorononanoic acid (PFNA)	B23-Oc0044709	CP	%	133			50-150	Pass	
Perfluorodecanoic acid (PFDA)	B23-Oc0044709	CP	%	133			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	B23-Oc0044709	CP	%	113			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	B23-Oc0044709	CP	%	96			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	B23-Oc0044709	CP	%	72			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	B23-Oc0044709	CP	%	102			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances									
				Result 1					
Perfluorooctane sulfonamide (FOSA)	B23-Oc0044709	CP	%	112			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Oc0044709	CP	%	97			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Oc0044709	CP	%	96			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Oc0044709	CP	%	109			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Oc0044709	CP	%	90			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Oc0044709	CP	%	123			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Oc0044709	CP	%	109			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFASs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	B23-Oc0044709	CP	%	120			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	B23-Oc0044709	CP	%	84			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	B23-Oc0044709	CP	%	99			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	B23-Oc0044709	CP	%	119			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	B23-Oc0044709	CP	%	125			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	B23-Oc0044709	CP	%	116			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	B23-Oc0044709	CP	%	118			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	B23-Oc0044709	CP	%	70			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Oc0044709	CP	%	122			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	B23-Oc0044709	CP	%	130			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Oc0044709	CP	%	124			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Oc0044709	CP	%	96			50-150	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	B23-Oc0044706	CP	ug/L	2.7	3.2	16	30%	Pass	
Perfluoropentanoic acid (PFPeA)	B23-Oc0044706	CP	ug/L	7.1	8.4	17	30%	Pass	
Perfluorohexanoic acid (PFHxA)	B23-Oc0044706	CP	ug/L	3.1	3.4	9.1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	B23-Oc0044706	CP	ug/L	0.96	1.1	14	30%	Pass	
Perfluorooctanoic acid (PFOA)	B23-Oc0044706	CP	ug/L	0.14	0.16	11	30%	Pass	
Perfluorononanoic acid (PFNA)	B23-Oc0044706	CP	ug/L	0.03	0.03	12	30%	Pass	
Perfluorodecanoic acid (PFDA)	B23-Oc0044706	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	B23-Oc0044706	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	B23-Oc0044706	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	B23-Oc0044706	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	B23-Oc0044706	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	B23-Oc0044706	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Oc0044706	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Oc0044706	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Oc0044706	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Oc0044706	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Oc0044706	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Oc0044706	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFASs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	B23-Oc0044706	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	B23-Oc0044706	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	B23-Oc0044706	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	B23-Oc0044706	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	B23-Oc0044706	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	B23-Oc0044706	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	B23-Oc0044706	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	B23-Oc0044706	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Oc0044706	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Oc0044706	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Oc0044706	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Oc0044706	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	B23-Oc0044712	CP	ug/L	3.8	3.2	18	30%	Pass
Perfluoropentanoic acid (PFPeA)	B23-Oc0044712	CP	ug/L	10	8.6	15	30%	Pass
Perfluorohexanoic acid (PFHxA)	B23-Oc0044712	CP	ug/L	3.5	3.6	3.1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	B23-Oc0044712	CP	ug/L	1.0	1.3	24	30%	Pass
Perfluorooctanoic acid (PFOA)	B23-Oc0044712	CP	ug/L	0.16	0.18	18	30%	Pass
Perfluorononanoic acid (PFNA)	B23-Oc0044712	CP	ug/L	0.03	0.04	25	30%	Pass
Perfluorodecanoic acid (PFDA)	B23-Oc0044712	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	B23-Oc0044712	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	B23-Oc0044712	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	B23-Oc0044712	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTEDA)	B23-Oc0044712	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	B23-Oc0044712	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Oc0044712	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Oc0044712	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Oc0044712	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Oc0044712	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Oc0044712	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Oc0044712	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	B23-Oc0044712	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	B23-Oc0044712	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	B23-Oc0044712	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	B23-Oc0044712	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	B23-Oc0044712	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	B23-Oc0044712	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	B23-Oc0044712	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	B23-Oc0044712	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Oc0044712	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Oc0044712	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Oc0044712	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Oc0044712	CP	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
C01	Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other
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.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised by:

Zoe Flynn	Analytical Services Manager
Jonathon Angell	Senior Analyst-PFAS
Jonathon Angell	Senior Analyst-Sample Properties



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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ANALYSIS REPORT SOIL

PROJECT NO: EW231874

Date of Issue: 27/10/2023

Customer: EUROFINS BRISBANE

Report No: 1

Address: 1/21 Smallwood Place MURARRIE
QLD 4172

Date Received: 23/10/2023

Matrix: Soil

Attention: Alana Wadsworth

Location: 1036504

Phone: 0499 810 009

Sampler ID: Client

Fax:

Date of Sampling: 17/10/2023

Email: alanawadsworth@eurofins.com

Sample Condition: Acceptable

Results apply to the samples as submitted. All pages of this report have been checked and approved for release.

Signed: Lisa Nies



NATA Accredited Laboratory 12360

Accredited for compliance with ISO/IEC 17025 - Testing

*This analysis relates to the sample submitted
and it is the client's responsibility to make
certain the sample is representative of the
matrix to be tested.*

*Samples will be discarded one month after the date of
this report. Please advise if you wish to have your
sample/s returned.*

results you can rely on



ANALYSIS REPORT

PROJECT NO: EW231874

Location: 1036504

CLIENT SAMPLE ID					23-Oc0044755	23-Oc0044756	23-Oc0044757	23-Oc0044758
					B1-1	B1-2	B1-3	B2-1
DEPTH								
Test Parameter	Method Description	Method Reference	Units	LOR	231874-1	231874-2	231874-3	231874-4
Gravel 2.36-4.75mm	Sieve	AS1289.3.6.3	%	na	3.2	3.7	7.1	30.7
Very Coarse Sand 1.18-2.36mm	Sieve	AS1289.3.6.3	%	na	2.8	3.0	3.7	11.1
Coarse Sand 0.6-1.18mm	Sieve	AS1289.3.6.3	%	na	3.6	4.7	4.9	7.7
Medium Sand 0.3-0.6mm	Sieve	AS1289.3.6.3	%	na	7.1	8.3	8.3	7.0
Fine Sand 0.15-0.30mm	Sieve	AS1289.3.6.3	%	na	6.4	7.1	7.5	5.3
Very Fine Sand 0.075-0.15mm	Sieve	AS1289.3.6.3	%	na	5.0	5.7	6.0	3.1
Coarse Silt 0.02-0.075mm	Hydrometer	AS1289.3.6.3	%	na	28.9	18.4	13.5	3.7
Fine Silt 0.002-0.020mm	Hydrometer	AS1289.3.6.3	%	na	7.0	10.7	10.7	10.8
Clay <0.002mm	Hydrometer	AS1289.3.6.3	%	na	35.9	38.3	38.2	20.6





ANALYSIS REPORT

PROJECT NO: EW231874

Location: 1036504

CLIENT SAMPLE ID					23-Oc0044759	23-Oc0044760	23-Oc0044761	23-Oc0044773
					B2-2	B2-3	B3-1	B3-2
DEPTH								
Test Parameter	Method Description	Method Reference	Units	LOR	231874-5	231874-6	231874-7	231874-8
Gravel 2.36-4.75mm	Sieve	AS1289.3.6.3	%	na	29.5	39.5	12.6	5.3
Very Coarse Sand 1.18-2.36mm	Sieve	AS1289.3.6.3	%	na	10.8	9.4	2.7	2.7
Coarse Sand 0.6-1.18mm	Sieve	AS1289.3.6.3	%	na	8.5	6.4	2.1	2.4
Medium Sand 0.3-0.6mm	Sieve	AS1289.3.6.3	%	na	7.4	5.8	13.3	12.3
Fine Sand 0.15-0.30mm	Sieve	AS1289.3.6.3	%	na	5.6	4.5	26.3	30.2
Very Fine Sand 0.075-0.15mm	Sieve	AS1289.3.6.3	%	na	3.5	2.8	6.7	7.8
Coarse Silt 0.02-0.075mm	Hydrometer	AS1289.3.6.3	%	na	3.0	1.9	13.2	13.6
Fine Silt 0.002-0.020mm	Hydrometer	AS1289.3.6.3	%	na	9.0	9.0	3.4	5.3
Clay <0.002mm	Hydrometer	AS1289.3.6.3	%	na	22.6	20.7	19.8	20.3





ANALYSIS REPORT

PROJECT NO: EW231874

Location: 1036504

CLIENT SAMPLE ID					23-Oc0044774			
					DEPTH	B3-3		
Test Parameter	Method Description	Method Reference	Units	LOR	231874-9			
Gravel 2.36-4.75mm	Sieve	AS1289.3.6.3	%	na	8.3			
Very Coarse Sand 1.18-2.36mm	Sieve	AS1289.3.6.3	%	na	2.9			
Coarse Sand 0.6-1.18mm	Sieve	AS1289.3.6.3	%	na	2.2			
Medium Sand 0.3-0.6mm	Sieve	AS1289.3.6.3	%	na	12.5			
Fine Sand 0.15-0.30mm	Sieve	AS1289.3.6.3	%	na	27.8			
Very Fine Sand 0.075-0.15mm	Sieve	AS1289.3.6.3	%	na	7.1			
Coarse Silt 0.02-0.075mm	Hydrometer	AS1289.3.6.3	%	na	13.4			
Fine Silt 0.002-0.020mm	Hydrometer	AS1289.3.6.3	%	na	5.3			
Clay <0.002mm	Hydrometer	AS1289.3.6.3	%	na	20.4			

This Analysis Report shall not be reproduced except in full without the written approval of the laboratory.

Soils are air dried at 40°C and ground <2mm.

NB: LOR is the Lowest Obtainable Reading.

DOCUMENT END





CERTIFICATE OF ANALYSIS

Work Order : **EB2332809**
Client : **ADE Consulting Group Pty Ltd**
Contact : **MR MATTHEW TOOLE**
Address :
Telephone : ----
Project : **A103021.1540.00**
Order number : ----
C-O-C number : ----
Sampler : **MATTHEW TOOLE**
Site : ----
Quote number : **EN/111**
No. of samples received : **3**
No. of samples analysed : **3**

Page : 1 of 7
Laboratory : Environmental Division Brisbane
Contact : Customer Services EB
Address : 2 Byth Street Stafford QLD Australia 4053
Telephone : +61-7-3243 7222
Date Samples Received : 20-Oct-2023 15:58
Date Analysis Commenced : 21-Oct-2023
Issue Date : 30-Oct-2023 16:28



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
Kim McCabe	Senior Inorganic Chemist	Brisbane Soil Preparation, Stafford, QLD
Matt Frost	Assistant Laboratory Manager	Brisbane Organics, Stafford, QLD
Morgan Lennox	Senior Organic Chemist	Brisbane Organics, Stafford, QLD



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.

- EP231X - PFAS: The LOR for PFHxS and PFDS has been raised for samples 'QC02' (EB2332809-001) and 'QC06' (EB2332809-003) due to matrix interference.
- EP231X - PFAS: Sample 'QC02' (EB2332809-001) shows poor matrix spike recovery due to sample heterogeneity. Confirmed by visual inspection.
- EP231X - PFAS: Sample EB2332597-001 shows poor duplicate recovery due to heterogeneity. Confirmed by visual inspection.
- 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.
- EN60: Where leachable PFAS analysis is requested, centrifugation rather than pressure filtration is used as the default approach for removal of particulates, in line with AS 4439.3.



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				QC02	QC04	QC06	----	----
Sampling date / time				17-Oct-2023 00:00	17-Oct-2023 00:00	17-Oct-2023 00:00	----	----
Compound	CAS Number	LOR	Unit	EB2332809-001	EB2332809-002	EB2332809-003	-----	-----
				Result	Result	Result	----	----
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.03	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.03	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.04	0.26	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.02	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.07	0.26	1.80	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	----	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	11.3	1.3	0.2	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	30.1	3.29	0.32	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	15.6	1.78	0.55	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	5.46	1.93	0.13	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	1.86	0.87	0.12	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	0.29	0.14	<0.02	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	0.05	<0.02	<0.02	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	----	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	<0.02	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	----	----



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				QC02	QC04	QC06	----	----
Sampling date / time				17-Oct-2023 00:00	17-Oct-2023 00:00	17-Oct-2023 00:00	----	----
Compound	CAS Number	LOR	Unit	EB2332809-001	EB2332809-002	EB2332809-003	-----	-----
				Result	Result	Result	----	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides - Continued								
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	<0.02	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	<0.02	----	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	0.20	<0.05	<0.05	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	0.10	<0.05	<0.05	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	----	----
EP231_TOP_P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	65.0	9.61	3.46	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	0.07	0.30	2.06	----	----
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.01	µg/L	64.7	9.61	3.46	----	----
^ Sum of TOP C4 - C14 as Fluorine	----	0.01	µg/L	42.2	6.32	2.24	----	----
EP231_TOP_S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	89.5	108	100	----	----
13C8-PFOA	----	0.02	%	88.0	104	102	----	----

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	QC02	QC04	QC06	----	----
Sampling date / time				17-Oct-2023 00:00	17-Oct-2023 00:00	17-Oct-2023 00:00	----	----	
Compound	CAS Number	LOR	Unit	EB2332809-001	EB2332809-002	EB2332809-003	-----	-----	
				Result	Result	Result	----	----	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content		----	0.1	%	26.9	5.8	18.2	----	----
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)									
Extraction Fluid pH		----	0.1	pH Unit	7.0	7.0	7.0	----	----
Final pH		----	0.1	pH Unit	10.8	8.7	9.0	----	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0007	----	----	
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	<0.0002	0.0008	----	----	
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0004	0.0012	0.0064	----	----	
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	<0.0002	0.0006	----	----	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0014	0.0120	0.0563	----	----	
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	<0.0004	----	----	
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	0.019	<0.001	<0.001	----	----	
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	0.0645	0.0010	0.0008	----	----	
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0570	0.0022	0.0023	----	----	
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	0.0087	0.0027	0.0006	----	----	
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0021	0.0013	0.0008	----	----	
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	0.0002	0.0002	0.0002	----	----	
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.0002	<0.0002	----	----	
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	----	----	
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	----	----	
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	----	----	
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	----	----	
EP231C: Perfluoroalkyl Sulfonamides									



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	QC02	QC04	QC06	----	----
Sampling date / time					17-Oct-2023 00:00	17-Oct-2023 00:00	17-Oct-2023 00:00	----	----
Compound	CAS Number	LOR	Unit		EB2332809-001	EB2332809-002	EB2332809-003	-----	-----
					Result	Result	Result	----	----
EP231C: Perfluoroalkyl Sulfonamides - Continued									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg		<0.0002	<0.0002	0.0003	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg		0.0600	0.0078	0.0019	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		0.0165	0.0016	0.0009	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	----	----
EP231P: PFAS Sums									
Sum of PFAS	----	0.0002	mg/kg		0.229	0.0302	0.0726	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		0.0014	0.0132	0.0627	----	----
Sum of PFAS (WA DER List)	----	0.0002	mg/kg		0.229	0.0298	0.0707	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		76.5	79.0	82.5	----	----
13C8-PFOA	----	0.0002	%		101	100	94.0	----	----



Surrogate Control Limits

Sub-Matrix: ASLP LEACHATE		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231_TOP_S: PFAS Surrogate			
13C4-PFOS	----	55	131
13C8-PFOA	----	66	128

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	----	76	136
13C8-PFOA	----	78	131

ADE Consulting Group QLD
10/53 Metroplex Ave
Murarie
QLD 4172



NATA Accredited
Accreditation Number 1261
Site Number 20794

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: **Matthew Toole**

Report **1036505-S**
 Project name [A103021.1540.00](#)
 Project ID [A103021.1540.00](#)
 Received Date Oct 19, 2023

Client Sample ID			B1-1	B1-3	B2-1	B2-3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			B23- Oc0044785	B23- Oc0044786	B23- Oc0044787	B23- Oc0044788
Date Sampled			Oct 16, 2023	Oct 16, 2023	Oct 16, 2023	Oct 16, 2023
Test/Reference	LOR	Unit				
QToF Contaminant Screen			See Attached	See Attached	See Attached	See Attached

Client Sample ID			B3-1	B3-3
Sample Matrix			Soil	Soil
Eurofins Sample No.			B23- Oc0044789	B23- Oc0044790
Date Sampled			Oct 16, 2023	Oct 16, 2023
Test/Reference	LOR	Unit		
QToF Contaminant Screen			See Attached	See Attached

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
-------------	--------------	-----------	--------------



Melbourne
6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
NATA# 1261
Site# 1254

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261
Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261
Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261
Site# 25466

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

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

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

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 4551
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: +64 3 343 5201
IANZ# 1290

Tauranga
1277 Cameron Road,
Gate Pa,
Tauranga 3112
Tel: +64 9 525 0568
IANZ# 1402

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Company Name: ADE Consulting Group QLD
Address: 10/53 Metroplex Ave
Murarrie
QLD 4172

Project Name: A103021.1540.00
Project ID: A103021.1540.00

Order No.:
Report #: 1036505
Phone: 1300 796 922
Fax:

Received: Oct 19, 2023 3:20 PM
Due: Nov 2, 2023
Priority: 10 Day
Contact Name: Matthew Toole

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail

Q ToF Contaminant Screen

Moisture Set

Brisbane Laboratory - NATA # 1261 Site # 20794

External Laboratory

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID		
1	B1-1	Oct 16, 2023		Soil	B23-Oc0044785	X	X
2	B1-3	Oct 16, 2023		Soil	B23-Oc0044786	X	X
3	B2-1	Oct 16, 2023		Soil	B23-Oc0044787	X	X
4	B2-3	Oct 16, 2023		Soil	B23-Oc0044788	X	X
5	B3-1	Oct 16, 2023		Soil	B23-Oc0044789	X	X
6	B3-3	Oct 16, 2023		Soil	B23-Oc0044790	X	X

Test Counts

6 6

Internal Quality Control Review and Glossary

General

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

Holding Times

Please refer to the '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 before sample receipt deadlines as stated on the SRA.

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

Holding times apply from the date of sampling; therefore, compliance with 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, 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
CEC	Cation Exchange Capacity
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 moisture has been determined on a solid sample, the result is expressed on a dry weight 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 represents 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 (<i>bis</i> -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. SVOCs recoveries 20 – 150%

PFAS field samples that contain surrogate recoveries above 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

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

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	N/A
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Authorised by:

Zoe Flynn

Analytical Services Manager



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

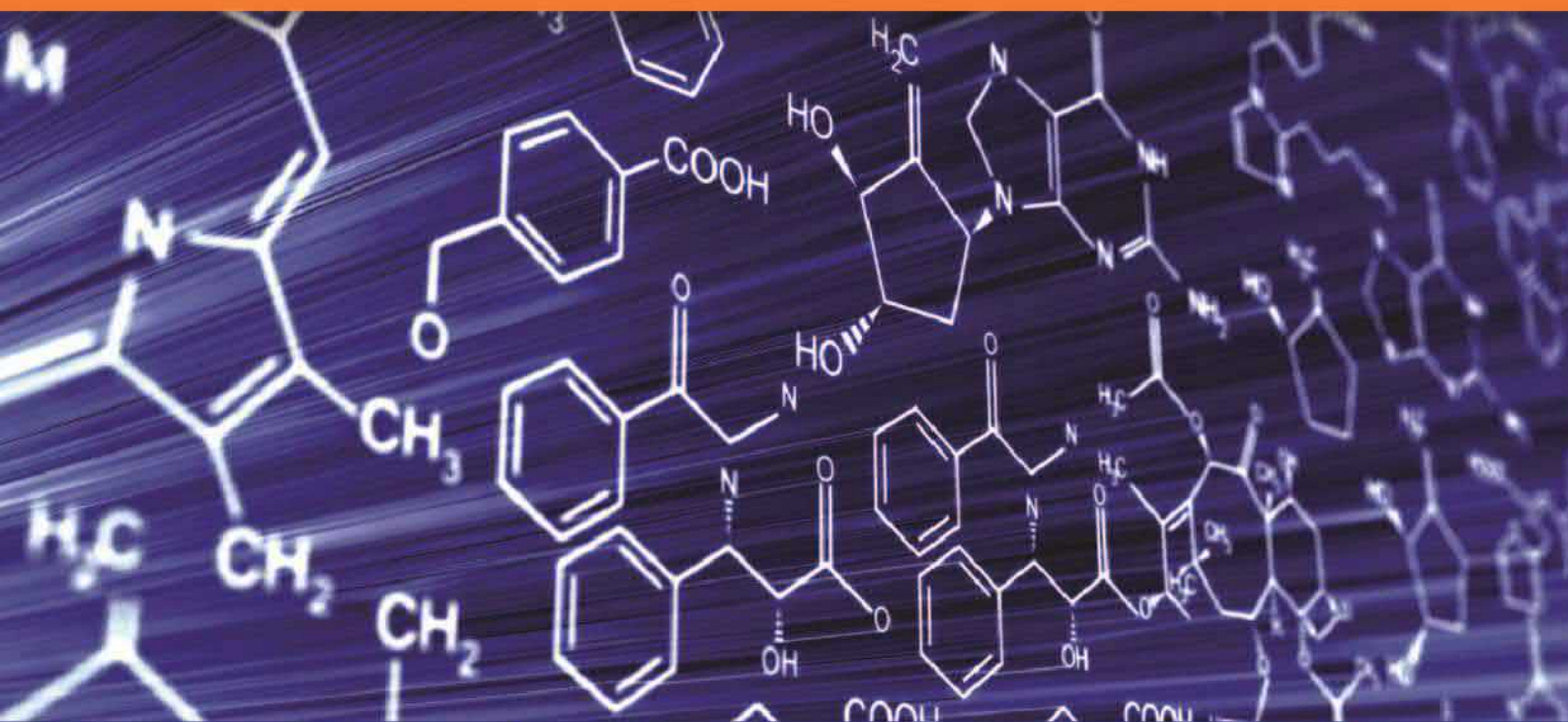
- Indicates Not Requested

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

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

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PFAS SCREENING



ADE Consulting Group
10/53 Metroplex Ave
Murarrie, QLD, 4172

Attention: Matthew Toole
Report 1036505
Project Name A103021.1540.00
Received Date October 19, 2023

METHODOLOGY:

Project Scope PFAS SCREENING

Sample Preparation Samples were extracted with Basic Methanol: Acetonitrile (1:1), then Acidic Methanol: Acetonitrile (1:1). These extracts were cleaned up with passthrough carbon SPE, and then combined before concentration by nitrogen blowdown. The final extract was filtered through a 0.2 µm RC filter and diluted 1:1 with Milli-Q water before analysis.

Analysis Samples were analysed using liquid chromatography quadrupole time-of-flight mass spectrometry (LC-QTOF-MS). Data was acquired in both positive and negative modes, using data-dependent and data-independent acquisition, with a mass range of 75-1700 m/z for both TOF and MS/MS scans. The data was screened against a commercial and in-house spectral library of PFAS.

Interpretation of results from non-targeted analysis Targeted mass spectrometry measures one or more analytes defined *a priori* and involves the use of certified reference materials acting as 'standards' against which the same substances are measured in the samples. The non-targeted analysis does not use standards in the same way. Instead, high-resolution mass accuracy is relied upon to provide details of the potential chemical formula, and MS fragment ions provide details on the actual structure. If available, reference materials can be used to provide confirmation of tentative identification. Without confirmation, every proposed structure has a degree of uncertainty associated with it.¹

SAMPLE & RESULTS SUMMARY:

Client Sample ID	B1-1	B1-3	B2-1	B2-3	B3-1	B3-3
Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil
Eurofins Sample No.	23- Oc0044785	23- Oc0044786	23- Oc0044787	23- Oc0044788	23- Oc0044789	23- Oc0044790
Date Sampled	16.10.2023	16.10.2023	16.10.2023	16.10.2023	16.10.2023	16.10.2023
PFPrA	✓	✓	x	x	x	x
PFBA	✓	✓	x	x	x	x
PFPeA	✓	✓	x	x	x	x
PFHxA	✓	✓	✓	✓	✓	✓
PFHpA	✓	✓	x	x	x	x
PFOA	✓	✓	✓	✓	✓	✓
PFBS	x	x	x	x	✓	✓
PFPeS	x	x	x	x	✓	✓
PFHxS	x	x	✓	✓	✓	✓
PFOS	✓	✓	✓	✓	✓	✓
FHxSA	x	x	x	x	✓	✓
6:2 FTUCA	✓	✓	x	x	x	x
6:2 FTS	✓	✓	✓	✓	✓	✓
8:2 FTS	✓	✓	✓	✓	✓	✓
5:3 FTB	x	x	x	x	✓	✓
5:1:2 FTB	x	x	x	x	✓	✓
7:3 FTB	x	x	x	x	✓	✓
7:1:3 FTB	x	x	x	x	✓	✓
4:2 Fluorotelomer sulfinyl amido sulfonic acid (4:2 FTSAS sulfoxide)	✓	✓	x	x	x	x
6:2 Fluorotelomer thioether amido sulfonic acid (6:2 FTSAS)	✓	✓	✓	✓	✓	✓
6:2 Fluorotelomer sulfinyl amido sulfonic acid (6:2 FTSAS sulfoxide)	✓	✓	✓	✓	✓	✓
6:2 Fluorotelomer sulfonyl amido sulfonic acid (6:2 FTSAS sulfone)	✓	✓	✓	✓	✓	✓
6:2 Fluorotelomer thioether propanoic acid	x	x	✓	✓	x	x
6:2 Fluorotelomer sulfinyl propanoic acid	✓	✓	✓	✓	x	x
6:2 fluorotelomer sulfonyl propanoic acid	✓	✓	✓	✓	x	x
8:2 fluorotelomer sulfonyl propanoic acid	x	x	✓	✓	x	x
8:2 Fluorotelomer thioether propanoic acid	x	x	✓	✓	x	x
6:2 FTAB	✓	✓	✓	✓	✓	✓
6:2 fluorotelomer sulfonamido propyl dimethylamine oxide	✓	✓	x	x	x	x
6:2 fluorotelomer sulfonamide amine	✓	✓	✓	✓	x	x
6:2 flutotelomer sulfonamine	✓	✓	x	x	x	x
Fipronil-sulfon	x	x	✓	✓	x	x
Hexaflumuron	x	x	✓	✓	x	x

Sample History

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

Description	Testing Site	Extracted	Holding Time^
Targeted screening with LC-QToF-MS*	Brisbane	25/10/2023	N/A

^No formal holding time studies have been conducted for non-targeted analysis of water samples. Use the information above as guidance only. Exceeding these default holding times does not invalidate the sample results.

References

1. Schymanski, E.L et al. (2014) Environmental Science and Technology 48: 2097 – 2098. [dx.doi.org/10.1021/es5002105](https://doi.org/10.1021/es5002105)

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks and Reference Material are included in this QC report where applicable.
2. Samples were analysed on an 'as received' basis.
3. This report replaces any interim results previously issued.
4. Information identified on this report with **blue font colour**, indicates data provided by the customer that may have an impact on the results.

Sample Integrity

Custody Seals Intact (if used) N/A

Qualifier Codes/Comments

Code	Description
N/A	Not applicable

Reviewed by:

Bryan Wilson	Senior Chemist
Dr Julia Jaeger	Technical Specialist
Dr Sasha Koreshkova	Analytical Services Manager
Paige Howarth	Assistant Analytical Services Manager

Authorised by:

Dr. Bob Symons Regional Technical Manager



Glenn Jackson

Managing Director

Final Report – this report replaces any previously issued Report.

* Indicates ISO/IEC 17025:2017 accreditation does not cover the performance of this service

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ADE Consulting Group QLD
10/53 Metroplex Ave
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QLD 4172



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

Attention: **Matthew Toole**

Report **1036893-S**
Project name **A103021.1540.00**
Project ID **A103021.1540.00**
Received Date **Oct 19, 2023**

Client Sample ID			B1-1-POST Soil B23- Oc0047556 Oct 19, 2023	B1-1-POST TOP - Soil B23- Oc0047557 Oct 19, 2023	B1-2-POST Soil B23- Oc0047569 Oct 19, 2023	B1-2-POST TOP - Soil B23- Oc0047570 Oct 19, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	22	23	23	22
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	31	26	32	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	84	90	84	110
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	70	51	70	72
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	8.3	17	9.0	18
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5	5.3
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	76	96	78	101
13C5-PFPeA (surr.)	1	%	99	126	89	81
13C5-PFHxA (surr.)	1	%	94	141	96	127
13C4-PFHpA (surr.)	1	%	110	92	112	104
13C8-PFOA (surr.)	1	%	105	99	111	123
13C5-PFNA (surr.)	1	%	116	109	123	124
13C6-PFDA (surr.)	1	%	105	110	114	128
13C2-PFUnDA (surr.)	1	%	107	96	116	130
13C2-PFDoDA (surr.)	1	%	111	80	113	102
13C2-PFTeDA (surr.)	1	%	104	83	123	94
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	B1-1-POST Soil B23- Oc0047556 Oct 19, 2023	B1-1-POST TOP - Soil B23- Oc0047557 Oct 19, 2023	B1-2-POST Soil B23- Oc0047569 Oct 19, 2023	B1-2-POST TOP - Soil B23- Oc0047570 Oct 19, 2023
Perfluoroalkyl sulfonamido substances						
13C8-FOSA (surr.)	1	%	80	129	87	131
D3-N-MeFOSA (surr.)	1	%	107	79	111	104
D5-N-EtFOSA (surr.)	1	%	127	96	147	122
D7-N-MeFOSE (surr.)	1	%	106	98	113	113
D9-N-EtFOSE (surr.)	1	%	91	99	100	103
D5-N-EtFOSAA (surr.)	1	%	60	122	59	137
D3-N-MeFOSAA (surr.)	1	%	62	110	58	124
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	92	96	103	111
18O2-PFHxS (surr.)	1	%	116	104	123	122
13C8-PFOS (surr.)	1	%	114	114	132	118
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	10	ug/kg	43	< 10	42	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	23	< 5	22	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	69	60	60	108
13C2-6:2 FTSA (surr.)	1	%	98	85	99	123
13C2-8:2 FTSA (surr.)	1	%	78	87	70	137
13C2-10:2 FTSA (surr.)	1	%	96	97	84	118
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	5.3
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	5.3
Sum of WA DWER PFAS (n=10)*	10	ug/kg	259.3	184	259	205.3
Sum of PFASs (n=30)*	50	ug/kg	259.3	184	259	205.3

Client Sample ID			B1-3-POST Soil B23- Oc0047572 Oct 19, 2023	B1-3-POST TOP - Soil B23- Oc0047573 Oct 19, 2023	B1-4-POST Soil B23- Oc0047585 Oct 19, 2023	B1-4-POST TOP - Soil B23- Oc0047586 Oct 19, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	23	23	26	25
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	35	< 5	35	56
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	96	< 5	98	150
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	77	< 5	76	81
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	8.2	17	9.0	20
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5	5.4
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	75	101	76	103
13C5-PFPeA (surr.)	1	%	88	135	88	131
13C5-PFHxA (surr.)	1	%	99	147	96	116
13C4-PFHpA (surr.)	1	%	122	59	115	81
13C8-PFOA (surr.)	1	%	116	133	110	90
13C5-PFNA (surr.)	1	%	129	130	120	94
13C6-PFDA (surr.)	1	%	113	135	108	97
13C2-PFUnDA (surr.)	1	%	131	128	109	82
13C2-PFDoDA (surr.)	1	%	117	111	110	69
13C2-PFTeDA (surr.)	1	%	132	106	120	93
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	95	140	88	90
D3-N-MeFOSA (surr.)	1	%	115	110	111	69
D5-N-EtFOSA (surr.)	1	%	150	134	131	91
D7-N-MeFOSE (surr.)	1	%	111	112	109	92
D9-N-EtFOSE (surr.)	1	%	100	109	91	97
D5-N-EtFOSAA (surr.)	1	%	64	134	69	104
D3-N-MeFOSAA (surr.)	1	%	64	130	57	92
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	B1-3-POST Soil B23- Oc0047572 Oct 19, 2023	B1-3-POST TOP - Soil B23- Oc0047573 Oct 19, 2023	B1-4-POST Soil B23- Oc0047585 Oct 19, 2023	B1-4-POST TOP - Soil B23- Oc0047586 Oct 19, 2023
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	93	13	95	88
18O2-PFHxS (surr.)	1	%	118	122	124	102
13C8-PFOS (surr.)	1	%	123	128	117	97
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	10	ug/kg	57	< 10	37	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	25	< 5	28	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	61	5.6	56	59
13C2-6:2 FTSA (surr.)	1	%	60	117	72	56
13C2-8:2 FTSA (surr.)	1	%	72	133	64	82
13C2-10:2 FTSA (surr.)	1	%	93	131	86	88
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	5.4
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	< 5	5.4
Sum of WA DWER PFAS (n=10)*	10	ug/kg	298.2	17	283	312.4
Sum of PFASs (n=30)*	50	ug/kg	298.2	< 50	283	312.4

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	B1-5-POST Soil B23- Oc0047588 Oct 19, 2023	B1-5-POST TOP - Soil B23- Oc0047589 Oct 19, 2023	B2-1-POST Soil B23- Oc0047591 Oct 19, 2023	B2-1-POST TOP - Soil B23- Oc0047592 Oct 19, 2023
Sample Properties						
% Moisture	1	%	24	24	5.0	5.0
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	27	38	< 5	14
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	81	110	< 5	22
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	67	62	< 5	18
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	7.9	15	< 5	29
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5	^{N09} 11
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTriDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	82	96	72	59
13C5-PFPeA (surr.)	1	%	90	128	83	107
13C5-PFHxA (surr.)	1	%	92	121	88	117
13C4-PFHpA (surr.)	1	%	112	80	91	102

Client Sample ID			B1-5-POST Soil B23- Oc0047588 Oct 19, 2023	B1-5-POST TOP - Soil B23- Oc0047589 Oct 19, 2023	B2-1-POST Soil B23- Oc0047591 Oct 19, 2023	B2-1-POST TOP - Soil B23- Oc0047592 Oct 19, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C8-PFOA (surr.)	1	%	109	94	86	106
13C5-PFNA (surr.)	1	%	121	99	89	108
13C6-PFDA (surr.)	1	%	109	101	78	115
13C2-PFUnDA (surr.)	1	%	109	94	77	115
13C2-PFDoDA (surr.)	1	%	113	74	56	97
13C2-PFTeDA (surr.)	1	%	97	81	53	101
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	88	105	70	123
D3-N-MeFOSA (surr.)	1	%	98	65	83	86
D5-N-EtFOSA (surr.)	1	%	120	81	108	90
D7-N-MeFOSE (surr.)	1	%	91	93	74	105
D9-N-EtFOSE (surr.)	1	%	87	89	70	94
D5-N-EtFOSAA (surr.)	1	%	63	112	15	125
D3-N-MeFOSAA (surr.)	1	%	62	104	15	113
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	< 5	^{N09} 12	^{N09} 9.6
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	96	89	104	117
18O2-PFHxS (surr.)	1	%	123	109	113	116
13C8-PFOS (surr.)	1	%	124	104	105	101
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	10	ug/kg	47	< 10	14	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	22	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	67	67	45	93
13C2-6:2 FTSA (surr.)	1	%	95	76	52	98
13C2-8:2 FTSA (surr.)	1	%	74	79	59	116
13C2-10:2 FTSA (surr.)	1	%	78	89	51	113

Client Sample ID			B1-5-POST	B1-5-POST	B2-1-POST	B2-1-POST
Sample Matrix			Soil	TOP - Soil	Soil	TOP - Soil
Eurofins Sample No.			B23- Oc0047588	B23- Oc0047589	B23- Oc0047591	B23- Oc0047592
Date Sampled			Oct 19, 2023	Oct 19, 2023	Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	12	9.6
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	< 5	12	20.6
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	< 5	12	20.6
Sum of WA DWER PFAS (n=10)*	10	ug/kg	251.9	225	26	103.6
Sum of PFASs (n=30)*	50	ug/kg	251.9	225	< 50	103.6

Client Sample ID			B2-2-POST	B2-2-POST	B2-3-POST	B2-3-POST
Sample Matrix			Soil	TOP - Soil	Soil	TOP - Soil
Eurofins Sample No.			B23- Oc0047604	B23- Oc0047605	B23- Oc0047607	B23- Oc0047608
Date Sampled			Oct 19, 2023	Oct 19, 2023	Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	5.3	6.3	6.0	6.0
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	< 5	< 5	15
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5	< 5	12
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	16	< 5	23
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5	^{N09} 7.7
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTrDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	71	101	71	104
13C5-PFPeA (surr.)	1	%	85	138	81	56
13C5-PFHxA (surr.)	1	%	92	155	94	149
13C4-PFHpA (surr.)	1	%	101	93	93	119
13C8-PFOA (surr.)	1	%	83	128	80	132
13C5-PFNA (surr.)	1	%	97	130	84	138
13C6-PFDA (surr.)	1	%	78	130	79	140
13C2-PFUnDA (surr.)	1	%	76	136	77	131
13C2-PFDoDA (surr.)	1	%	67	101	69	106
13C2-PFTeDA (surr.)	1	%	64	106	52	125
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	B2-2-POST Soil B23- Oc0047604 Oct 19, 2023	B2-2-POST TOP - Soil B23- Oc0047605 Oct 19, 2023	B2-3-POST Soil B23- Oc0047607 Oct 19, 2023	B2-3-POST TOP - Soil B23- Oc0047608 Oct 19, 2023
Perfluoroalkyl sulfonamido substances						
13C8-FOSA (surr.)	1	%	71	134	65	143
D3-N-MeFOSA (surr.)	1	%	91	103	73	109
D5-N-EtFOSA (surr.)	1	%	119	123	97	123
D7-N-MeFOSE (surr.)	1	%	86	112	80	118
D9-N-EtFOSE (surr.)	1	%	77	113	72	122
D5-N-EtFOSAA (surr.)	1	%	13	132	11	136
D3-N-MeFOSAA (surr.)	1	%	12	127	11	133
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	^{N09} 11	^{N09} 6.6	^{N09} 10	^{N09} 7.1
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	107	31	104	124
18O2-PFHxS (surr.)	1	%	118	139	97	144
13C8-PFOS (surr.)	1	%	105	125	107	125
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	10	ug/kg	12	< 10	11	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	46	13	50	133
13C2-6:2 FTSA (surr.)	1	%	52	145	54	140
13C2-8:2 FTSA (surr.)	1	%	61	142	67	112
13C2-10:2 FTSA (surr.)	1	%	59	127	62	128
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	11	6.6	10	7.1
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	11	6.6	10	14.8
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	11	6.6	10	14.8
Sum of WA DWER PFAS (n=10)*	10	ug/kg	23	22.6	21	64.8
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	64.8

Client Sample ID			B2-4-POST Soil B23- Oc0047620 Oct 19, 2023	B2-4-POST TOP - Soil B23- Oc0047621 Oct 19, 2023	B2-5-POST Soil B23- Oc0047623 Oct 19, 2023	B2-5-POST TOP - Soil B23- Oc0047624 Oct 19, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	6.0	5.9	6.4	4.8
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	< 5	9.2
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	7.4	< 5	16
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	17	< 5	13
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	26	< 5	23
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	^{N09} 7.6	< 5	^{N09} 7.3
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	79	75	68	74
13C5-PFPeA (surr.)	1	%	91	82	88	83
13C5-PFHxA (surr.)	1	%	99	115	88	99
13C4-PFHpA (surr.)	1	%	99	110	92	89
13C8-PFOA (surr.)	1	%	97	128	86	85
13C5-PFNA (surr.)	1	%	103	126	94	94
13C6-PFDA (surr.)	1	%	79	125	79	94
13C2-PFUnDA (surr.)	1	%	76	130	78	93
13C2-PFDoDA (surr.)	1	%	66	104	80	74
13C2-PFTeDA (surr.)	1	%	55	101	69	81
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	83	132	71	74
D3-N-MeFOSA (surr.)	1	%	90	108	86	63
D5-N-EtFOSA (surr.)	1	%	113	115	120	74
D7-N-MeFOSE (surr.)	1	%	80	111	90	91
D9-N-EtFOSE (surr.)	1	%	73	102	78	86
D5-N-EtFOSAA (surr.)	1	%	14	130	15	101
D3-N-MeFOSAA (surr.)	1	%	14	126	14	100
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5

Client Sample ID			B2-4-POST Soil B23- Oc0047620 Oct 19, 2023	B2-4-POST TOP - Soil B23- Oc0047621 Oct 19, 2023	B2-5-POST Soil B23- Oc0047623 Oct 19, 2023	B2-5-POST TOP - Soil B23- Oc0047624 Oct 19, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	^{N09} 9.9	^{N09} 11	^{N09} 11	^{N09} 7.2
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	123	118	98	116
18O2-PFHxS (surr.)	1	%	119	125	109	111
13C8-PFOS (surr.)	1	%	111	110	103	95
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	10	ug/kg	10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	49	86	41	59
13C2-6:2 FTSA (surr.)	1	%	59	131	52	63
13C2-8:2 FTSA (surr.)	1	%	64	129	52	85
13C2-10:2 FTSA (surr.)	1	%	53	112	60	82
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	9.9	11	11	7.2
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	9.9	18.6	11	14.5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	9.9	18.6	11	14.5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	19.9	69	11	75.7
Sum of PFASs (n=30)*	50	ug/kg	< 50	69	< 50	75.7

Client Sample ID			B3-1-POST Soil B23- Oc0047626 Oct 19, 2023	B3-1-POST TOP - Soil B23- Oc0047627 Oct 19, 2023	B3-2-POST Soil B23- Oc0047639 Oct 19, 2023	B3-2-POST TOP - Soil B23- Oc0047640 Oct 19, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	14	18	19	18
Perfluoroalkyl carboxylic acids (PFCA)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	< 5	< 5	9.1
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5	< 5	5.7
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTriDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	87	65	78	74
13C5-PFPeA (surr.)	1	%	108	70	100	108
13C5-PFHxA (surr.)	1	%	107	100	99	118
13C4-PFHpA (surr.)	1	%	114	74	104	105

Client Sample ID			B3-1-POST Soil B23- Oc0047626 Oct 19, 2023	B3-1-POST TOP - Soil B23- Oc0047627 Oct 19, 2023	B3-2-POST Soil B23- Oc0047639 Oct 19, 2023	B3-2-POST TOP - Soil B23- Oc0047640 Oct 19, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C8-PFOA (surr.)	1	%	112	76	95	96
13C5-PFNA (surr.)	1	%	115	81	98	98
13C6-PFDA (surr.)	1	%	102	80	83	91
13C2-PFUnDA (surr.)	1	%	106	76	86	87
13C2-PFDoDA (surr.)	1	%	92	69	78	75
13C2-PFTeDA (surr.)	1	%	94	78	82	81
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	84	96	72	99
D3-N-MeFOSA (surr.)	1	%	103	66	78	64
D5-N-EtFOSA (surr.)	1	%	134	81	110	81
D7-N-MeFOSE (surr.)	1	%	114	95	72	79
D9-N-EtFOSE (surr.)	1	%	97	86	74	88
D5-N-EtFOSAA (surr.)	1	%	63	93	53	95
D3-N-MeFOSAA (surr.)	1	%	78	91	61	98
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	^{N09} 61	^{N09} 35	^{N09} 71	^{N09} 53
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	106	110	95	116
18O2-PFHxS (surr.)	1	%	117	98	98	105
13C8-PFOS (surr.)	1	%	91	75	75	87
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	64	51	45	72
13C2-6:2 FTSA (surr.)	1	%	70	62	54	72
13C2-8:2 FTSA (surr.)	1	%	87	58	58	94
13C2-10:2 FTSA (surr.)	1	%	90	77	71	81

Client Sample ID			B3-1-POST	B3-1-POST	B3-2-POST	B3-2-POST
Sample Matrix			Soil	TOP - Soil	Soil	TOP - Soil
Eurofins Sample No.			B23- Oc0047626	B23- Oc0047627	B23- Oc0047639	B23- Oc0047640
Date Sampled			Oct 19, 2023	Oct 19, 2023	Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	61	35	71	53
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	61	35	71	53
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	61	35	71	53
Sum of WA DWER PFAS (n=10)*	10	ug/kg	61	35	71	67.8
Sum of PFASs (n=30)*	50	ug/kg	61	< 50	71	67.8

Client Sample ID			B3-3-POST	B3-3-POST	B3-4-POST	B3-4-POST
Sample Matrix			Soil	TOP - Soil	Soil	TOP - Soil
Eurofins Sample No.			B23- Oc0047642	B23- Oc0047643	B23- Oc0047655	B23- Oc0047656
Date Sampled			Oct 19, 2023	Oct 19, 2023	Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	19	19	19	16
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	5.2	< 5	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTrDA) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	85	73	82	53
13C5-PFPeA (surr.)	1	%	101	105	99	54
13C5-PFHxA (surr.)	1	%	107	124	102	84
13C4-PFHpA (surr.)	1	%	104	96	105	110
13C8-PFOA (surr.)	1	%	104	103	99	134
13C5-PFNA (surr.)	1	%	109	99	105	127
13C6-PFDA (surr.)	1	%	102	97	96	118
13C2-PFUnDA (surr.)	1	%	103	92	97	117
13C2-PFDoDA (surr.)	1	%	93	75	79	113
13C2-PFTeDA (surr.)	1	%	109	71	87	99
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled Test/Reference	LOR	Unit	B3-3-POST Soil B23- Oc0047642 Oct 19, 2023	B3-3-POST TOP - Soil B23- Oc0047643 Oct 19, 2023	B3-4-POST Soil B23- Oc0047655 Oct 19, 2023	B3-4-POST TOP - Soil B23- Oc0047656 Oct 19, 2023
Perfluoroalkyl sulfonamido substances						
13C8-FOSA (surr.)	1	%	79	102	74	130
D3-N-MeFOSA (surr.)	1	%	94	70	96	100
D5-N-EtFOSA (surr.)	1	%	127	83	122	112
D7-N-MeFOSE (surr.)	1	%	107	86	99	101
D9-N-EtFOSE (surr.)	1	%	96	87	84	101
D5-N-EtFOSAA (surr.)	1	%	64	97	57	124
D3-N-MeFOSAA (surr.)	1	%	68	97	59	122
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	^{N09} 49	^{N09} 43	^{N09} 70	^{N09} 45
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	110	113	94	42
18O2-PFHxS (surr.)	1	%	106	104	104	113
13C8-PFOS (surr.)	1	%	108	78	67	116
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	54	65	57	13
13C2-6:2 FTSA (surr.)	1	%	63	68	61	113
13C2-8:2 FTSA (surr.)	1	%	69	90	69	132
13C2-10:2 FTSA (surr.)	1	%	81	91	80	133
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	49	43	70	45
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	49	43	70	45
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	49	43	70	45
Sum of WA DWER PFAS (n=10)*	10	ug/kg	49	48.2	70	45
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	70	< 50

Client Sample ID			B3-5-POST	B3-5-POST
Sample Matrix			Soil	TOP - Soil
Eurofins Sample No.			B23- Oc0047658	B23- Oc0047659
Date Sampled			Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit		
Sample Properties				
% Moisture	1	%	16	16
Perfluoroalkyl carboxylic acids (PFCAs)				
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	< 5
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	5	ug/kg	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5
13C4-PFBA (surr.)	1	%	92	67
13C5-PFPeA (surr.)	1	%	116	74
13C5-PFHxA (surr.)	1	%	112	82
13C4-PFHpA (surr.)	1	%	120	87
13C8-PFOA (surr.)	1	%	110	141
13C5-PFNA (surr.)	1	%	126	128
13C6-PFDA (surr.)	1	%	109	118
13C2-PFUnDA (surr.)	1	%	118	118
13C2-PFDoDA (surr.)	1	%	129	103
13C2-PFTeDA (surr.)	1	%	123	95
Perfluoroalkyl sulfonamido substances				
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10
13C8-FOSA (surr.)	1	%	88	136
D3-N-MeFOSA (surr.)	1	%	104	111
D5-N-EtFOSA (surr.)	1	%	140	116
D7-N-MeFOSE (surr.)	1	%	111	105
D9-N-EtFOSE (surr.)	1	%	102	101
D5-N-EtFOSAA (surr.)	1	%	91	117
D3-N-MeFOSAA (surr.)	1	%	68	121
Perfluoroalkyl sulfonic acids (PFSA)				
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5
Perfluorononanesulfonic acid (PFNS) ^{N15}	5	ug/kg	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	5	ug/kg	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5

Client Sample ID			B3-5-POST	B3-5-POST
Sample Matrix			Soil	TOP - Soil
Eurofins Sample No.			B23- Oc0047658	B23- Oc0047659
Date Sampled			Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit		
Perfluoroalkyl sulfonic acids (PFASs)				
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	^{N09} 59	^{N09} 52
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5
13C3-PFBS (surr.)	1	%	103	20
18O2-PFHxS (surr.)	1	%	105	107
13C8-PFOS (surr.)	1	%	107	114
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	58	5.9
13C2-6:2 FTSA (surr.)	1	%	72	121
13C2-8:2 FTSA (surr.)	1	%	97	138
13C2-10:2 FTSA (surr.)	1	%	126	110
PFASs Summations				
Sum (PFHxS + PFOS)*	5	ug/kg	59	52
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	59	52
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	59	52
Sum of WA DWER PFAS (n=10)*	10	ug/kg	59	52
Sum of PFASs (n=30)*	50	ug/kg	59	52

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
% Moisture	Brisbane	Oct 20, 2023	14 Days
- Method: LTM-GEN-7080 Moisture			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Brisbane	Oct 23, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Brisbane	Oct 23, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Brisbane	Oct 23, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Brisbane	Oct 23, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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

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Company Name: ADE Consulting Group QLD
Address: 10/53 Metroplex Ave
Murarrie
QLD 4172

Project Name: A103021.1540.00
Project ID: A103021.1540.00

Order No.:
Report #: 1036893
Phone: 1300 796 922
Fax:

Received: Oct 19, 2023 4:30 PM
Due: Nov 2, 2023
Priority: 10 Day
Contact Name: Matthew Toole

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
External Laboratory									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
1	B1-1-POST	Oct 19, 2023		Soil	B23-Oc0047556			X	X
2	B1-1-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047557	X		X	X
3	B1-1-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047558	X	X		X
4	B1-1-POST_DAY_1	Oct 19, 2023		Leachate - MEP	B23-Oc0047559		X		X
5	B1-1-POST_DAY_2	Oct 19, 2023		Leachate - MEP	B23-Oc0047560		X		X
6	B1-1-POST_DAY_3	Oct 19, 2023		Leachate - MEP	B23-Oc0047561		X		X
7	B1-1-POST_DAY_4	Oct 19, 2023		Leachate - MEP	B23-Oc0047562		X		X
8	B1-1-POST_DAY_5	Oct 19, 2023		Leachate - MEP	B23-Oc0047563		X		X
9	B1-1-	Oct 19, 2023		Leachate -	B23-Oc0047564		X		X

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

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Company Name: ADE Consulting Group QLD Address: 10/53 Metroplex Ave Murarrie QLD 4172 Project Name: A103021.1540.00 Project ID: A103021.1540.00	Order No.: Report #: 1036893 Phone: 1300 796 922 Fax:	Received: Oct 19, 2023 4:30 PM Due: Nov 2, 2023 Priority: 10 Day Contact Name: Matthew Toole
Eurofins Analytical Services Manager : Zoe Flynn		

Sample Detail						Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
	POST_DAY_6			MEP					
10	B1-1-POST_DAY_7	Oct 19, 2023		Leachate - MEP	B23-Oc0047565		X		X
11	B1-1-POST_DAY_8	Oct 19, 2023		Leachate - MEP	B23-Oc0047566		X		X
12	B1-1-POST_DAY_9	Oct 19, 2023		Leachate - MEP	B23-Oc0047567		X		X
13	B1-1-POST_DAY_10	Oct 19, 2023		Leachate - MEP	B23-Oc0047568		X		X
14	B1-2-POST	Oct 19, 2023		Soil	B23-Oc0047569			X	X
15	B1-2-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047570	X		X	X
16	B1-2-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047571	X	X		X
17	B1-3-POST	Oct 19, 2023		Soil	B23-Oc0047572			X	X
18	B1-3-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047573	X		X	X
19	B1-3-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047574	X	X		X

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

Auckland	Christchurch	Tauranga
35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

Company Name: ADE Consulting Group QLD Address: 10/53 Metroplex Ave Murarrie QLD 4172 Project Name: A103021.1540.00 Project ID: A103021.1540.00	Order No.: Report #: 1036893 Phone: 1300 796 922 Fax:	Received: Oct 19, 2023 4:30 PM Due: Nov 2, 2023 Priority: 10 Day Contact Name: Matthew Toole
Eurofins Analytical Services Manager : Zoe Flynn		

Sample Detail						Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
20	B1-3-POST_DAY_1	Oct 19, 2023		Leachate - MEP	B23-Oc0047575		X		X
21	B1-3-POST_DAY_2	Oct 19, 2023		Leachate - MEP	B23-Oc0047576		X		X
22	B1-3-POST_DAY_3	Oct 19, 2023		Leachate - MEP	B23-Oc0047577		X		X
23	B1-3-POST_DAY_4	Oct 19, 2023		Leachate - MEP	B23-Oc0047578		X		X
24	B1-3-POST_DAY_5	Oct 19, 2023		Leachate - MEP	B23-Oc0047579		X		X
25	B1-3-POST_DAY_6	Oct 19, 2023		Leachate - MEP	B23-Oc0047580		X		X
26	B1-3-POST_DAY_7	Oct 19, 2023		Leachate - MEP	B23-Oc0047581		X		X
27	B1-3-POST_DAY_8	Oct 19, 2023		Leachate - MEP	B23-Oc0047582		X		X
28	B1-3-POST_DAY_9	Oct 19, 2023		Leachate - MEP	B23-Oc0047583		X		X
29	B1-3-	Oct 19, 2023		Leachate -	B23-Oc0047584		X		X

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

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

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35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

Company Name: ADE Consulting Group QLD
Address: 10/53 Metroplex Ave
Murarrie
QLD 4172

Project Name: A103021.1540.00
Project ID: A103021.1540.00

Order No.:
Report #: 1036893
Phone: 1300 796 922
Fax:

Received: Oct 19, 2023 4:30 PM
Due: Nov 2, 2023
Priority: 10 Day
Contact Name: Matthew Toole

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
	POST_DAY_1_0			MEP					
30	B1-4-POST	Oct 19, 2023		Soil	B23-Oc0047585			X	X
31	B1-4-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047586	X		X	X
32	B1-4-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047587	X	X		X
33	B1-5-POST	Oct 19, 2023		Soil	B23-Oc0047588			X	X
34	B1-5-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047589	X		X	X
35	B1-5-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047590	X	X		X
36	B2-1-POST	Oct 19, 2023		Soil	B23-Oc0047591			X	X
37	B2-1-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047592	X		X	X
38	B2-1-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047593	X	X		X
39	B2-1-POST_DAY_1	Oct 19, 2023		Leachate - MEP	B23-Oc0047594		X		X
40	B2-1-POST_DAY_2	Oct 19, 2023		Leachate - MEP	B23-Oc0047595		X		X

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

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

Auckland	Christchurch	Tauranga
35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

Company Name: ADE Consulting Group QLD Address: 10/53 Metroplex Ave Murarrie QLD 4172 Project Name: A103021.1540.00 Project ID: A103021.1540.00	Order No.: Report #: 1036893 Phone: 1300 796 922 Fax:	Received: Oct 19, 2023 4:30 PM Due: Nov 2, 2023 Priority: 10 Day Contact Name: Matthew Toole
Eurofins Analytical Services Manager : Zoe Flynn		

Sample Detail						Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
41	B2-1-POST_DAY_3	Oct 19, 2023		Leachate - MEP	B23-Oc0047596		X		X
42	B2-1-POST_DAY_4	Oct 19, 2023		Leachate - MEP	B23-Oc0047597		X		X
43	B2-1-POST_DAY_5	Oct 19, 2023		Leachate - MEP	B23-Oc0047598		X		X
44	B2-1-POST_DAY_6	Oct 19, 2023		Leachate - MEP	B23-Oc0047599		X		X
45	B2-1-POST_DAY_7	Oct 19, 2023		Leachate - MEP	B23-Oc0047600		X		X
46	B2-1-POST_DAY_8	Oct 19, 2023		Leachate - MEP	B23-Oc0047601		X		X
47	B2-1-POST_DAY_9	Oct 19, 2023		Leachate - MEP	B23-Oc0047602		X		X
48	B2-1-POST_DAY_10	Oct 19, 2023		Leachate - MEP	B23-Oc0047603		X		X
49	B2-2-POST	Oct 19, 2023		Soil	B23-Oc0047604			X	X
50	B2-2-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047605	X		X	X

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

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

Auckland	Christchurch	Tauranga
35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

Company Name: ADE Consulting Group QLD
Address: 10/53 Metroplex Ave
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Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
51	B2-2-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047606	X	X		X
52	B2-3-POST	Oct 19, 2023		Soil	B23-Oc0047607			X	X
53	B2-3-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047608	X		X	X
54	B2-3-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047609	X	X		X
55	B2-3-POST_DAY_1	Oct 19, 2023		Leachate - MEP	B23-Oc0047610		X		X
56	B2-3-POST_DAY_2	Oct 19, 2023		Leachate - MEP	B23-Oc0047611		X		X
57	B2-3-POST_DAY_3	Oct 19, 2023		Leachate - MEP	B23-Oc0047612		X		X
58	B2-3-POST_DAY_4	Oct 19, 2023		Leachate - MEP	B23-Oc0047613		X		X
59	B2-3-POST_DAY_5	Oct 19, 2023		Leachate - MEP	B23-Oc0047614		X		X
60	B2-3-POST_DAY_6	Oct 19, 2023		Leachate - MEP	B23-Oc0047615		X		X

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

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35 O'Rourke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

Company Name: ADE Consulting Group QLD Address: 10/53 Metroplex Ave Murarrie QLD 4172 Project Name: A103021.1540.00 Project ID: A103021.1540.00	Order No.: Report #: 1036893 Phone: 1300 796 922 Fax:	Received: Oct 19, 2023 4:30 PM Due: Nov 2, 2023 Priority: 10 Day Contact Name: Matthew Toole
Eurofins Analytical Services Manager : Zoe Flynn		

Sample Detail						Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
61	B2-3-POST_DAY_7	Oct 19, 2023		Leachate - MEP	B23-Oc0047616		X		X
62	B2-3-POST_DAY_8	Oct 19, 2023		Leachate - MEP	B23-Oc0047617		X		X
63	B2-3-POST_DAY_9	Oct 19, 2023		Leachate - MEP	B23-Oc0047618		X		X
64	B2-3-POST_DAY_10	Oct 19, 2023		Leachate - MEP	B23-Oc0047619		X		X
65	B2-4-POST	Oct 19, 2023		Soil	B23-Oc0047620			X	X
66	B2-4-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047621	X		X	X
67	B2-4-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047622	X	X		X
68	B2-5-POST	Oct 19, 2023		Soil	B23-Oc0047623			X	X
69	B2-5-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047624	X		X	X
70	B2-5-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047625	X	X		X
71	B3-1-POST	Oct 19, 2023		Soil	B23-Oc0047626			X	X

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

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

Auckland	Christchurch	Tauranga
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Company Name: ADE Consulting Group QLD Address: 10/53 Metroplex Ave Murarrie QLD 4172 Project Name: A103021.1540.00 Project ID: A103021.1540.00	Order No.: Report #: 1036893 Phone: 1300 796 922 Fax:	Received: Oct 19, 2023 4:30 PM Due: Nov 2, 2023 Priority: 10 Day Contact Name: Matthew Toole
Eurofins Analytical Services Manager : Zoe Flynn		

Sample Detail						Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
72	B3-1-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047627	X		X	X
73	B3-1-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047628	X	X		X
74	B3-1-POST_DAY_1	Oct 19, 2023		Leachate - MEP	B23-Oc0047629		X		X
75	B3-1-POST_DAY_2	Oct 19, 2023		Leachate - MEP	B23-Oc0047630		X		X
76	B3-1-POST_DAY_3	Oct 19, 2023		Leachate - MEP	B23-Oc0047631		X		X
77	B3-1-POST_DAY_4	Oct 19, 2023		Leachate - MEP	B23-Oc0047632		X		X
78	B3-1-POST_DAY_5	Oct 19, 2023		Leachate - MEP	B23-Oc0047633		X		X
79	B3-1-POST_DAY_6	Oct 19, 2023		Leachate - MEP	B23-Oc0047634		X		X
80	B3-1-POST_DAY_7	Oct 19, 2023		Leachate - MEP	B23-Oc0047635		X		X
81	B3-1-POST_DAY_8	Oct 19, 2023		Leachate - MEP	B23-Oc0047636		X		X

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Perth
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Sample Detail						Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
82	B3-1-POST_DAY_9	Oct 19, 2023		Leachate - MEP	B23-Oc0047637		X		X
83	B3-1-POST_DAY_10	Oct 19, 2023		Leachate - MEP	B23-Oc0047638		X		X
84	B3-2-POST	Oct 19, 2023		Soil	B23-Oc0047639			X	X
85	B3-2-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047640	X		X	X
86	B3-2-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047641	X	X		X
87	B3-3-POST	Oct 19, 2023		Soil	B23-Oc0047642			X	X
88	B3-3-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047643	X		X	X
89	B3-3-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047644	X	X		X
90	B3-3-POST_DAY_1	Oct 19, 2023		Leachate - MEP	B23-Oc0047645		X		X
91	B3-3-POST_DAY_2	Oct 19, 2023		Leachate - MEP	B23-Oc0047646		X		X
92	B3-3-	Oct 19, 2023		Leachate -	B23-Oc0047647		X		X

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Perth
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Sample Detail						Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
	POST_DAY_3			MEP					
93	B3-3-POST_DAY_4	Oct 19, 2023		Leachate - MEP	B23-Oc0047648		X		X
94	B3-3-POST_DAY_5	Oct 19, 2023		Leachate - MEP	B23-Oc0047649		X		X
95	B3-3-POST_DAY_6	Oct 19, 2023		Leachate - MEP	B23-Oc0047650		X		X
96	B3-3-POST_DAY_7	Oct 19, 2023		Leachate - MEP	B23-Oc0047651		X		X
97	B3-3-POST_DAY_8	Oct 19, 2023		Leachate - MEP	B23-Oc0047652		X		X
98	B3-3-POST_DAY_9	Oct 19, 2023		Leachate - MEP	B23-Oc0047653		X		X
99	B3-3-POST_DAY_10	Oct 19, 2023		Leachate - MEP	B23-Oc0047654		X		X
100	B3-4-POST	Oct 19, 2023		Soil	B23-Oc0047655			X	X
101	B3-4-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047656	X		X	X



Melbourne
6 Monterey Road
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Site# 1254

Geelong
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Tel: +61 3 8564 5000
NATA# 1261
Site# 25403

Sydney
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Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261
Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261
Site# 25466

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

Newcastle
1/2 Frost Drive
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Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Perth
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Welshpool
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NATA# 2377
Site# 2370

Auckland
35 O'Rorke Road
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IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
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Tel: +64 3 343 5201
IANZ# 1290

Tauranga
1277 Cameron Road,
Gate Pa,
Tauranga 3112
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IANZ# 1402

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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Sample Detail

Brisbane Laboratory - NATA # 1261 Site # 20794

						Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
102	B3-4-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047657	X	X	X	X
103	B3-5-POST	Oct 19, 2023		Soil	B23-Oc0047658	X	X		X
104	B3-5-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047659	X		X	X
105	B3-5-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047660	X	X		X
106	QC19	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047661	X	X		X
107	QC21	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047662	X	X		X
108	QC23	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047663	X	X		X

Test Counts

33 78 30 108

Internal Quality Control Review and Glossary

General

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

Holding Times

Please refer to the '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 before sample receipt deadlines as stated on the SRA.

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

Holding times apply from the date of sampling; therefore, compliance with 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, 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
CEC	Cation Exchange Capacity
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 moisture has been determined on a solid sample, the result is expressed on a dry weight 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 represents 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 (<i>bis</i> -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. SVOCs recoveries 20 – 150%

PFAS field samples that contain surrogate recoveries above 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

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

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSA's)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	106			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	106			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	94			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	101			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	113			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	94			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	75			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	98			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	81			50-150	Pass	
Perfluorotridecanoic acid (PFTTrDA)	%	77			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	76			50-150	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery									
Perfluoroalkyl sulfonamido substances									
Perfluorooctane sulfonamide (FOSA)			%	100			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)			%	81			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)			%	76			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)			%	73			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)			%	73			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)			%	72			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)			%	73			50-150	Pass	
LCS - % Recovery									
Perfluoroalkyl sulfonic acids (PFSA's)									
Perfluorobutanesulfonic acid (PFBS)			%	118			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)			%	103			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)			%	109			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)			%	124			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)			%	106			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)			%	104			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)			%	106			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)			%	74			50-150	Pass	
LCS - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)									
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)			%	122			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)			%	86			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)			%	82			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)			%	82			50-150	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)									
				Result 1					
Perfluorobutanoic acid (PFBA)	B23-Oc0047557	CP	%	84			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	B23-Oc0047557	CP	%	85			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	B23-Oc0047557	CP	%	83			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	B23-Oc0047557	CP	%	118			50-150	Pass	
Perfluorooctanoic acid (PFOA)	B23-Oc0047557	CP	%	106			50-150	Pass	
Perfluorononanoic acid (PFNA)	B23-Oc0047557	CP	%	93			50-150	Pass	
Perfluorodecanoic acid (PFDA)	B23-Oc0047557	CP	%	79			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	B23-Oc0047557	CP	%	102			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	B23-Oc0047557	CP	%	74			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	B23-Oc0047557	CP	%	75			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	B23-Oc0047557	CP	%	73			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances									
				Result 1					
Perfluorooctane sulfonamide (FOSA)	B23-Oc0047557	CP	%	121			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Oc0047557	CP	%	98			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Oc0047557	CP	%	83			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Oc0047557	CP	%	71			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Oc0047557	CP	%	75			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Oc0047557	CP	%	90			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Oc0047557	CP	%	75			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSA's)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	B23-Oc0047557	CP	%	116			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	B23-Oc0047557	CP	%	119			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	B23-Oc0047557	CP	%	117			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	B23-Oc0047557	CP	%	101			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	B23-Oc0047557	CP	%	98			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	B23-Oc0047557	CP	%	94			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	B23-Oc0047557	CP	%	123			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	B23-Oc0047557	CP	%	88			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Oc0047557	CP	%	67			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Oc0047557	CP	%	77			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Oc0047557	CP	%	79			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Oc0047557	CP	%	81			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	B23-Oc0047569	CP	%	96			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	B23-Oc0047569	CP	%	111			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	B23-Oc0047569	CP	%	56			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	B23-Oc0047569	CP	%	61			50-150	Pass	
Perfluorooctanoic acid (PFOA)	B23-Oc0047569	CP	%	106			50-150	Pass	
Perfluorononanoic acid (PFNA)	B23-Oc0047569	CP	%	101			50-150	Pass	
Perfluorodecanoic acid (PFDA)	B23-Oc0047569	CP	%	97			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	B23-Oc0047569	CP	%	102			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	B23-Oc0047569	CP	%	97			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	B23-Oc0047569	CP	%	111			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	B23-Oc0047569	CP	%	103			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	B23-Oc0047569	CP	%	107			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Oc0047569	CP	%	116			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Oc0047569	CP	%	104			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Oc0047569	CP	%	93			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Oc0047569	CP	%	104			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Oc0047569	CP	%	83			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Oc0047569	CP	%	89			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSA's)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	B23-Oc0047569	CP	%	102			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	B23-Oc0047569	CP	%	94			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	B23-Oc0047569	CP	%	93			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	B23-Oc0047569	CP	%	113			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	B23-Oc0047569	CP	%	99			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	B23-Oc0047569	CP	%	103			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	B23-Oc0047569	CP	%	125			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	B23-Oc0047569	CP	%	92			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Oc0047569	CP	%	87			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Oc0047569	CP	%	71			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Oc0047569	CP	%	121			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Oc0047569	CP	%	113			50-150	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	B23-Oc0046061	NCP	%	< 1	< 1	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	B23-Oc0047588	CP	ug/kg	27	26	3.3	30%	Pass	
Perfluoropentanoic acid (PFPeA)	B23-Oc0047588	CP	ug/kg	81	82	1.1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	B23-Oc0047588	CP	ug/kg	67	57	16	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	B23-Oc0047588	CP	ug/kg	7.9	6.9	14	30%	Pass	
Perfluorooctanoic acid (PFOA)	B23-Oc0047588	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	B23-Oc0047588	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	B23-Oc0047588	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	B23-Oc0047588	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	B23-Oc0047588	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	B23-Oc0047588	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	B23-Oc0047588	CP	ug/kg	< 5	< 5	<1	30%	Pass	

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	B23-Oc0047588	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Oc0047588	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Oc0047588	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Oc0047588	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Oc0047588	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Oc0047588	CP	ug/kg	< 10	< 10	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Oc0047588	CP	ug/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFASs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	B23-Oc0047588	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	B23-Oc0047588	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	B23-Oc0047588	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	B23-Oc0047588	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	B23-Oc0047588	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	B23-Oc0047588	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	B23-Oc0047588	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	B23-Oc0047588	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Oc0047588	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Oc0047588	CP	ug/kg	47	46	2.9	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Oc0047588	CP	ug/kg	22	25	12	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Oc0047588	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	B23-Oc0047656	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	B23-Oc0047656	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	B23-Oc0047656	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	B23-Oc0047656	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	B23-Oc0047656	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanoic acid (PFNA)	B23-Oc0047656	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	B23-Oc0047656	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	B23-Oc0047656	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	B23-Oc0047656	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	B23-Oc0047656	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	B23-Oc0047656	CP	ug/kg	< 5	< 5	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	B23-Oc0047656	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Oc0047656	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Oc0047656	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Oc0047656	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Oc0047656	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Oc0047656	CP	ug/kg	< 10	< 10	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Oc0047656	CP	ug/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFASs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	B23-Oc0047656	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	B23-Oc0047656	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	B23-Oc0047656	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	B23-Oc0047656	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	B23-Oc0047656	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	B23-Oc0047656	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	B23-Oc0047656	CP	ug/kg	45	45	1.1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	B23-Oc0047656	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Oc0047656	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Oc0047656	CP	ug/kg	< 10	< 10	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Oc0047656	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Oc0047656	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	B23-Oc0047658	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	B23-Oc0047658	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	B23-Oc0047658	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	B23-Oc0047658	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	B23-Oc0047658	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanoic acid (PFNA)	B23-Oc0047658	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	B23-Oc0047658	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	B23-Oc0047658	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	B23-Oc0047658	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	B23-Oc0047658	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	B23-Oc0047658	CP	ug/kg	< 5	< 5	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	B23-Oc0047658	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Oc0047658	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Oc0047658	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Oc0047658	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Oc0047658	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Oc0047658	CP	ug/kg	< 10	< 10	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Oc0047658	CP	ug/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	B23-Oc0047658	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	B23-Oc0047658	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	B23-Oc0047658	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	B23-Oc0047658	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	B23-Oc0047658	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	B23-Oc0047658	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	B23-Oc0047658	CP	ug/kg	59	59	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	B23-Oc0047658	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Oc0047658	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Oc0047658	CP	ug/kg	< 10	< 10	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Oc0047658	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Oc0047658	CP	ug/kg	< 5	< 5	<1	30%	Pass

Comments
Sample Integrity

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

Qualifier Codes/Comments

Code	Description
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.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised by:

Zoe Flynn	Analytical Services Manager
Jonathon Angell	Senior Analyst-PFAS
Jonathon Angell	Senior Analyst-Sample Properties



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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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: **Matthew Toole**

Report **1036893-L**
Project name **A103021.1540.00**
Project ID **A103021.1540.00**
Received Date **Oct 19, 2023**

Client Sample ID			B1-1-POST AUS Leachate - TOP B23- Oc0047558 Oct 19, 2023	B1-1- POST_DAY_1 Leachate - MEP B23- Oc0047559 Oct 19, 2023	B1-1- POST_DAY_2 Leachate - MEP B23- Oc0047560 Oct 19, 2023	B1-1- POST_DAY_3 Leachate - MEP B23- Oc0047561 Oct 19, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	6.0	6.0	6.0
pH (initial)	0.1	pH Units	N/A	4.2	4.5	4.5
pH (Leachate fluid)	0.1	pH Units	7.0	n/a	2.8	2.8
pH (off)	0.1	pH Units	11	4.4	4.5	4.6
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	0.36	0.56	< 0.05	0.09
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	0.37	0.23	< 0.01	0.03
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	0.24	0.04	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	0.12	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	0.06	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTeDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	74	76	91	85
13C5-PFPeA (surr.)	1	%	83	95	105	100
13C5-PFHxA (surr.)	1	%	85	88	91	87
13C4-PFHpA (surr.)	1	%	96	108	110	102
13C8-PFOA (surr.)	1	%	82	133	130	132
13C5-PFNA (surr.)	1	%	86	87	90	89
13C6-PFDA (surr.)	1	%	68	80	84	75
13C2-PFUnDA (surr.)	1	%	49	86	88	81
13C2-PFDoDA (surr.)	1	%	47	86	92	81
13C2-PFTeDA (surr.)	1	%	56	51	59	52
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			B1-1-POST AUS Leachate - TOP B23- Oc0047558 Oct 19, 2023	B1-1- POST_DAY_1 Leachate - MEP B23- Oc0047559 Oct 19, 2023	B1-1- POST_DAY_2 Leachate - MEP B23- Oc0047560 Oct 19, 2023	B1-1- POST_DAY_3 Leachate - MEP B23- Oc0047561 Oct 19, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	48	69	74	67
D3-N-MeFOSA (surr.)	1	%	34	61	75	54
D5-N-EtFOSA (surr.)	1	%	31	59	75	53
D7-N-MeFOSE (surr.)	1	%	35	72	71	62
D9-N-EtFOSE (surr.)	1	%	32	61	67	56
D5-N-EtFOSAA (surr.)	1	%	40	67	69	61
D3-N-MeFOSAA (surr.)	1	%	43	64	65	61
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	93	126	118	113
18O2-PFHxS (surr.)	1	%	109	119	119	125
13C8-PFOS (surr.)	1	%	70	102	93	92
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	44	75	76	64
13C2-6:2 FTSA (surr.)	1	%	65	71	77	65
13C2-8:2 FTSA (surr.)	1	%	80	97	89	86
13C2-10:2 FTSA (surr.)	1	%	56	115	129	140
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.06	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.06	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	1.15	0.83	< 0.05	0.12
Sum of PFASs (n=30)*	0.1	ug/L	1.15	0.83	< 0.1	0.12

Client Sample ID			B1-1- POST_DAY_4	B1-1- POST_DAY_5	B1-1- POST_DAY_6	B1-1- POST_DAY_7
Sample Matrix			Leachate - MEP	Leachate - MEP	Leachate - MEP	Leachate - MEP
Eurofins Sample No.			B23- Oc0047562	B23- Oc0047563	B23- Oc0047564	B23- Oc0047565
Date Sampled			Oct 19, 2023	Oct 19, 2023	Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	6.0	6.0	6.0	6.0
pH (initial)	0.1	pH Units	4.5	4.4	4.5	4.6
pH (Leachate fluid)	0.1	pH Units	2.8	2.8	2.8	2.8
pH (off)	0.1	pH Units	4.7	5.0	5.0	4.8
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTeDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	127	91	80	73
13C5-PFPeA (surr.)	1	%	125	119	125	79
13C5-PFHxA (surr.)	1	%	90	127	99	80
13C4-PFHpA (surr.)	1	%	60	96	106	88
13C8-PFOA (surr.)	1	%	132	108	116	66
13C5-PFNA (surr.)	1	%	123	87	86	58
13C6-PFDA (surr.)	1	%	111	98	78	60
13C2-PFUnDA (surr.)	1	%	105	79	104	53
13C2-PFDoDA (surr.)	1	%	104	83	88	37
13C2-PFTeDA (surr.)	1	%	96	104	66	38
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	99	81	72	93
D3-N-MeFOSA (surr.)	1	%	102	61	16	92
D5-N-EtFOSA (surr.)	1	%	82	75	17	65
D7-N-MeFOSE (surr.)	1	%	102	60	24	88
D9-N-EtFOSE (surr.)	1	%	76	67	21	51
D5-N-EtFOSAA (surr.)	1	%	97	78	89	35
D3-N-MeFOSAA (surr.)	1	%	105	73	98	36

Client Sample ID			B1-1- POST_DAY_4	B1-1- POST_DAY_5	B1-1- POST_DAY_6	B1-1- POST_DAY_7
Sample Matrix			Leachate - MEP	Leachate - MEP	Leachate - MEP	Leachate - MEP
Eurofins Sample No.			B23- Oc0047562	B23- Oc0047563	B23- Oc0047564	B23- Oc0047565
Date Sampled			Oct 19, 2023	Oct 19, 2023	Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	141	98	77	59
18O2-PFHxS (surr.)	1	%	129	95	78	77
13C8-PFOS (surr.)	1	%	101	93	96	66
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	109	148	108	113
13C2-6:2 FTSA (surr.)	1	%	34	140	118	93
13C2-8:2 FTSA (surr.)	1	%	78	97	86	42
13C2-10:2 FTSA (surr.)	1	%	135	94	81	59
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			B1-1- POST_DAY_8	B1-1- POST_DAY_9	B1-1- POST_DAY_10	B1-2-POST
Sample Matrix			Leachate - MEP	Leachate - MEP	Leachate - MEP	AUS Leachate - TOP
Eurofins Sample No.			B23- Oc0047566	B23- Oc0047567	B23- Oc0047568	B23- Oc0047571
Date Sampled			Oct 19, 2023	Oct 19, 2023	Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	6.0	6.0	6.0	4.0
pH (initial)	0.1	pH Units	4.1	3.5	4.5	N/A
pH (Leachate fluid)	0.1	pH Units	2.8	2.8	2.8	7.0
pH (off)	0.1	pH Units	4.7	3.4	3.5	11
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	0.41
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	0.44
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	0.26
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	0.12

Client Sample ID			B1-1- POST_DAY_8 Leachate - MEP B23- Oc0047566 Oct 19, 2023	B1-1- POST_DAY_9 Leachate - MEP B23- Oc0047567 Oct 19, 2023	B1-1- POST_DAY_10 Leachate - MEP B23- Oc0047568 Oct 19, 2023	B1-2-POST AUS Leachate - TOP B23- Oc0047571 Oct 19, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	0.06
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTeDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	136	108	82	112
13C5-PFPeA (surr.)	1	%	147	117	89	99
13C5-PFHxA (surr.)	1	%	135	116	89	96
13C4-PFHpA (surr.)	1	%	137	116	95	97
13C8-PFOA (surr.)	1	%	141	115	77	74
13C5-PFNA (surr.)	1	%	128	97	76	66
13C6-PFDA (surr.)	1	%	136	95	85	63
13C2-PFUnDA (surr.)	1	%	130	92	66	51
13C2-PFDoDA (surr.)	1	%	103	63	51	58
13C2-PFTeDA (surr.)	1	%	109	54	68	56
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	100	84	82	46
D3-N-MeFOSA (surr.)	1	%	141	114	55	41
D5-N-EtFOSA (surr.)	1	%	140	109	34	41
D7-N-MeFOSE (surr.)	1	%	102	82	50	36
D9-N-EtFOSE (surr.)	1	%	90	67	49	32
D5-N-EtFOSAA (surr.)	1	%	101	62	46	49
D3-N-MeFOSAA (surr.)	1	%	98	65	45	49
Perfluoroalkyl sulfonic acids (PFSA's)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	117	100	70	99
18O2-PFHxS (surr.)	1	%	120	93	87	85
13C8-PFOS (surr.)	1	%	109	88	75	55

Client Sample ID			B1-1- POST_DAY_8	B1-1- POST_DAY_9	B1-1- POST_DAY_10	B1-2-POST
Sample Matrix			Leachate - MEP	Leachate - MEP	Leachate - MEP	AUS Leachate - TOP
Eurofins Sample No.			B23- Oc0047566	B23- Oc0047567	B23- Oc0047568	B23- Oc0047571
Date Sampled			Oct 19, 2023	Oct 19, 2023	Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	102	73	112	62
13C2-6:2 FTSA (surr.)	1	%	91	74	139	76
13C2-8:2 FTSA (surr.)	1	%	143	88	55	72
13C2-10:2 FTSA (surr.)	1	%	131	74	61	65
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	0.06
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	0.06
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	1.29
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	1.29

Client Sample ID			B1-3-POST	B1-3- POST_DAY_1	B1-3- POST_DAY_2	B1-3- POST_DAY_3
Sample Matrix			AUS Leachate - TOP	Leachate - MEP	Leachate - MEP	Leachate - MEP
Eurofins Sample No.			B23- Oc0047574	B23- Oc0047575	B23- Oc0047576	B23- Oc0047577
Date Sampled			Oct 19, 2023	Oct 19, 2023	Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	6.0	6.0	6.0
pH (initial)	0.1	pH Units	N/A	4.2	4.5	4.5
pH (Leachate fluid)	0.1	pH Units	7.0	n/a	2.8	2.8
pH (off)	0.1	pH Units	11	4.3	4.6	4.6
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	0.50	0.64	< 0.05	0.09
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	0.50	0.29	0.02	0.03
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	0.29	0.03	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	0.13	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	0.07	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTriDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	74	76	89	87
13C5-PFPeA (surr.)	1	%	93	98	102	104
13C5-PFHxA (surr.)	1	%	90	97	89	85
13C4-PFHpA (surr.)	1	%	92	114	107	108
13C8-PFOA (surr.)	1	%	76	141	128	129

Client Sample ID			B1-3-POST AUS Leachate - TOP B23- Oc0047574 Oct 19, 2023	B1-3- POST_DAY_1 Leachate - MEP B23- Oc0047575 Oct 19, 2023	B1-3- POST_DAY_2 Leachate - MEP B23- Oc0047576 Oct 19, 2023	B1-3- POST_DAY_3 Leachate - MEP B23- Oc0047577 Oct 19, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C5-PFNA (surr.)	1	%	72	93	92	89
13C6-PFDA (surr.)	1	%	62	79	82	81
13C2-PFUnDA (surr.)	1	%	49	82	81	86
13C2-PFDoDA (surr.)	1	%	39	88	84	86
13C2-PFTeDA (surr.)	1	%	23	50	47	52
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	37	74	68	74
D3-N-MeFOSA (surr.)	1	%	22	64	48	54
D5-N-EtFOSA (surr.)	1	%	19	59	45	54
D7-N-MeFOSE (surr.)	1	%	30	68	67	64
D9-N-EtFOSE (surr.)	1	%	23	61	52	59
D5-N-EtFOSAA (surr.)	1	%	27	67	75	69
D3-N-MeFOSAA (surr.)	1	%	33	67	65	67
Perfluoroalkyl sulfonic acids (PFSA's)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	^{N09} 0.06	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	96	127	118	119
18O2-PFHxS (surr.)	1	%	103	125	120	126
13C8-PFOS (surr.)	1	%	66	106	114	102
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	46	75	65	71
13C2-6:2 FTSA (surr.)	1	%	60	70	79	68
13C2-8:2 FTSA (surr.)	1	%	52	92	100	89
13C2-10:2 FTSA (surr.)	1	%	47	146	55	114

Client Sample ID			B1-3-POST AUS Leachate - TOP B23- Oc0047574 Oct 19, 2023	B1-3- POST_DAY_1 Leachate - MEP B23- Oc0047575 Oct 19, 2023	B1-3- POST_DAY_2 Leachate - MEP B23- Oc0047576 Oct 19, 2023	B1-3- POST_DAY_3 Leachate - MEP B23- Oc0047577 Oct 19, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.06	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.13	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.13	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	1.55	0.96	< 0.05	0.12
Sum of PFASs (n=30)*	0.1	ug/L	1.55	0.96	< 0.1	0.12

Client Sample ID			B1-3- POST_DAY_4 Leachate - MEP B23- Oc0047578 Oct 19, 2023	B1-3- POST_DAY_5 Leachate - MEP B23- Oc0047579 Oct 19, 2023	B1-3- POST_DAY_6 Leachate - MEP B23- Oc0047580 Oct 19, 2023	B1-3- POST_DAY_7 Leachate - MEP B23- Oc0047581 Oct 19, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	6.0	6.0	6.0	6.0
pH (initial)	0.1	pH Units	4.5	4.4	4.4	4.4
pH (Leachate fluid)	0.1	pH Units	2.8	2.8	2.8	2.8
pH (off)	0.1	pH Units	4.6	4.9	5.0	4.8
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTeDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	142	85	88	74
13C5-PFPeA (surr.)	1	%	133	104	133	73
13C5-PFHxA (surr.)	1	%	70	126	106	77
13C4-PFHpA (surr.)	1	%	71	105	118	87
13C8-PFOA (surr.)	1	%	121	98	138	68
13C5-PFNA (surr.)	1	%	134	79	97	62
13C6-PFDA (surr.)	1	%	110	87	95	80
13C2-PFUnDA (surr.)	1	%	125	71	131	51
13C2-PFDoDA (surr.)	1	%	127	70	107	34
13C2-PFTeDA (surr.)	1	%	117	91	124	40

Client Sample ID			B1-3- POST_DAY_4 Leachate - MEP B23- Oc0047578 Oct 19, 2023	B1-3- POST_DAY_5 Leachate - MEP B23- Oc0047579 Oct 19, 2023	B1-3- POST_DAY_6 Leachate - MEP B23- Oc0047580 Oct 19, 2023	B1-3- POST_DAY_7 Leachate - MEP B23- Oc0047581 Oct 19, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	111	82	122	80
D3-N-MeFOSA (surr.)	1	%	108	59	90	40
D5-N-EtFOSA (surr.)	1	%	93	60	95	33
D7-N-MeFOSE (surr.)	1	%	104	59	67	48
D9-N-EtFOSE (surr.)	1	%	124	63	60	46
D5-N-EtFOSAA (surr.)	1	%	89	64	102	34
D3-N-MeFOSAA (surr.)	1	%	111	67	119	35
Perfluoroalkyl sulfonic acids (PFSA's)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	132	110	84	62
18O2-PFHxS (surr.)	1	%	146	98	88	70
13C8-PFOS (surr.)	1	%	130	84	119	66
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	98	151	105	107
13C2-6:2 FTSA (surr.)	1	%	47	110	142	75
13C2-8:2 FTSA (surr.)	1	%	41	99	109	45
13C2-10:2 FTSA (surr.)	1	%	136	78	96	55
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			B1-3- POST_DAY_8	B1-3- POST_DAY_9	B1-3- POST_DAY_10	B1-4-POST
Sample Matrix			Leachate - MEP	Leachate - MEP	Leachate - MEP	AUS Leachate - TOP
Eurofins Sample No.			B23- Oc0047582	B23- Oc0047583	B23- Oc0047584	B23- Oc0047587
Date Sampled			Oct 19, 2023	Oct 19, 2023	Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	6.0	6.0	6.0	4.0
pH (initial)	0.1	pH Units	4.2	3.7	4.4	N/A
pH (Leachate fluid)	0.1	pH Units	2.8	2.8	2.8	7.0
pH (off)	0.1	pH Units	4.6	3.4	3.4	11
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	0.49
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	0.44
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	0.27
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	0.13
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	0.07
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTeDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	124	116	119	52
13C5-PFPeA (surr.)	1	%	128	142	129	117
13C5-PFHxA (surr.)	1	%	136	137	136	126
13C4-PFHpA (surr.)	1	%	127	122	146	109
13C8-PFOA (surr.)	1	%	127	126	110	84
13C5-PFNA (surr.)	1	%	113	109	102	86
13C6-PFDA (surr.)	1	%	112	108	133	87
13C2-PFUnDA (surr.)	1	%	111	109	91	81
13C2-PFDoDA (surr.)	1	%	84	72	61	86
13C2-PFTeDA (surr.)	1	%	93	79	58	43
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	82	102	143	67
D3-N-MeFOSA (surr.)	1	%	100	132	134	44
D5-N-EtFOSA (surr.)	1	%	88	128	109	37
D7-N-MeFOSE (surr.)	1	%	86	81	101	44
D9-N-EtFOSE (surr.)	1	%	77	72	81	37
D5-N-EtFOSAA (surr.)	1	%	84	79	68	70
D3-N-MeFOSAA (surr.)	1	%	85	77	60	58

Client Sample ID			B1-3- POST_DAY_8	B1-3- POST_DAY_9	B1-3- POST_DAY_10	B1-4-POST
Sample Matrix			Leachate - MEP	Leachate - MEP	Leachate - MEP	AUS Leachate - TOP
Eurofins Sample No.			B23- Oc0047582	B23- Oc0047583	B23- Oc0047584	B23- Oc0047587
Date Sampled			Oct 19, 2023	Oct 19, 2023	Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	115	104	98	121
18O2-PFHxS (surr.)	1	%	105	104	120	110
13C8-PFOS (surr.)	1	%	103	95	100	80
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	90	90	183	97
13C2-6:2 FTSA (surr.)	1	%	89	84	178	110
13C2-8:2 FTSA (surr.)	1	%	98	106	79	93
13C2-10:2 FTSA (surr.)	1	%	110	99	98	95
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	0.07
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	0.07
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	1.4
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	1.4

Client Sample ID			B1-5-POST	B2-1-POST	B2-1- POST_DAY_1	B2-1- POST_DAY_2
Sample Matrix			AUS Leachate - TOP	AUS Leachate - TOP	Leachate - MEP	Leachate - MEP
Eurofins Sample No.			B23- Oc0047590	B23- Oc0047593	B23- Oc0047594	B23- Oc0047595
Date Sampled			Oct 19, 2023	Oct 19, 2023	Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	6.0	6.0
pH (initial)	0.1	pH Units	N/A	N/A	4.2	5.0
pH (Leachate fluid)	0.1	pH Units	7.0	7.0	n/a	2.8
pH (off)	0.1	pH Units	11	7.9	5.1	5.5
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	0.41	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	0.33	0.08	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	0.18	0.09	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	0.09	0.15	< 0.01	< 0.01

Client Sample ID			B1-5-POST AUS Leachate - TOP B23- Oc0047590 Oct 19, 2023	B2-1-POST AUS Leachate - TOP B23- Oc0047593 Oct 19, 2023	B2-1- POST_DAY_1 Leachate - MEP B23- Oc0047594 Oct 19, 2023	B2-1- POST_DAY_2 Leachate - MEP B23- Oc0047595 Oct 19, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	0.05	0.07	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTeDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	64	109	90	109
13C5-PFPeA (surr.)	1	%	121	132	112	115
13C5-PFHxA (surr.)	1	%	139	120	98	108
13C4-PFHpA (surr.)	1	%	132	118	117	122
13C8-PFOA (surr.)	1	%	118	100	134	144
13C5-PFNA (surr.)	1	%	113	120	95	104
13C6-PFDA (surr.)	1	%	108	120	87	98
13C2-PFUnDA (surr.)	1	%	82	113	79	94
13C2-PFDoDA (surr.)	1	%	58	106	71	104
13C2-PFTeDA (surr.)	1	%	46	77	38	78
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	82	98	57	80
D3-N-MeFOSA (surr.)	1	%	12	59	18	78
D5-N-EtFOSA (surr.)	1	%	INT	53	17	85
D7-N-MeFOSE (surr.)	1	%	35	71	38	73
D9-N-EtFOSE (surr.)	1	%	28	66	31	68
D5-N-EtFOSAA (surr.)	1	%	68	91	66	81
D3-N-MeFOSAA (surr.)	1	%	70	91	63	74
Perfluoroalkyl sulfonic acids (PFSA's)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	142	128	128	134
18O2-PFHxS (surr.)	1	%	133	113	127	127
13C8-PFOS (surr.)	1	%	94	106	95	116

Client Sample ID			B1-5-POST AUS Leachate - TOP B23- Oc0047590 Oct 19, 2023	B2-1-POST AUS Leachate - TOP B23- Oc0047593 Oct 19, 2023	B2-1- POST_DAY_1 Leachate - MEP B23- Oc0047594 Oct 19, 2023	B2-1- POST_DAY_2 Leachate - MEP B23- Oc0047595 Oct 19, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	87	85	80	111
13C2-6:2 FTSA (surr.)	1	%	124	121	85	114
13C2-8:2 FTSA (surr.)	1	%	122	164	94	110
13C2-10:2 FTSA (surr.)	1	%	102	129	49	142
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.05	0.07	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.05	0.07	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	1.06	0.39	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	1.06	0.4	< 0.1	< 0.1

Client Sample ID			B2-1- POST_DAY_3 Leachate - MEP B23- Oc0047596 Oct 19, 2023	B2-1- POST_DAY_4 Leachate - MEP B23- Oc0047597 Oct 19, 2023	B2-1- POST_DAY_5 Leachate - MEP B23- Oc0047598 Oct 19, 2023	B2-1- POST_DAY_6 Leachate - MEP B23- Oc0047599 Oct 19, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	6.0	6.0	6.0	6.0
pH (initial)	0.1	pH Units	5.0	5.0	5.0	4.1
pH (Leachate fluid)	0.1	pH Units	2.8	2.8	2.8	2.8
pH (off)	0.1	pH Units	5.2	5.0	4.2	3.9
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTriDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	99	113	78	54
13C5-PFPeA (surr.)	1	%	106	125	91	78
13C5-PFHxA (surr.)	1	%	96	92	105	69
13C4-PFHpA (surr.)	1	%	114	68	80	72
13C8-PFOA (surr.)	1	%	123	128	86	81

Client Sample ID			B2-1- POST_DAY_3 Leachate - MEP B23- Oc0047596 Oct 19, 2023	B2-1- POST_DAY_4 Leachate - MEP B23- Oc0047597 Oct 19, 2023	B2-1- POST_DAY_5 Leachate - MEP B23- Oc0047598 Oct 19, 2023	B2-1- POST_DAY_6 Leachate - MEP B23- Oc0047599 Oct 19, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C5-PFNA (surr.)	1	%	86	115	69	58
13C6-PFDA (surr.)	1	%	76	133	69	50
13C2-PFUnDA (surr.)	1	%	71	99	58	74
13C2-PFDoDA (surr.)	1	%	69	86	54	68
13C2-PFTeDA (surr.)	1	%	44	71	45	89
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	61	89	70	78
D3-N-MeFOSA (surr.)	1	%	37	87	27	123
D5-N-EtFOSA (surr.)	1	%	37	68	27	144
D7-N-MeFOSE (surr.)	1	%	49	89	61	50
D9-N-EtFOSE (surr.)	1	%	47	83	42	47
D5-N-EtFOSAA (surr.)	1	%	64	74	53	69
D3-N-MeFOSAA (surr.)	1	%	62	97	53	69
Perfluoroalkyl sulfonic acids (PFSA's)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	121	113	81	53
18O2-PFHxS (surr.)	1	%	123	127	88	54
13C8-PFOS (surr.)	1	%	84	98	69	78
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	104	126	134	44
13C2-6:2 FTSA (surr.)	1	%	85	43	108	60
13C2-8:2 FTSA (surr.)	1	%	94	140	92	51
13C2-10:2 FTSA (surr.)	1	%	112	113	56	60

Client Sample ID			B2-1- POST_DAY_3	B2-1- POST_DAY_4	B2-1- POST_DAY_5	B2-1- POST_DAY_6
Sample Matrix			Leachate - MEP	Leachate - MEP	Leachate - MEP	Leachate - MEP
Eurofins Sample No.			B23- Oc0047596	B23- Oc0047597	B23- Oc0047598	B23- Oc0047599
Date Sampled			Oct 19, 2023	Oct 19, 2023	Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			B2-1- POST_DAY_7	B2-1- POST_DAY_8	B2-1- POST_DAY_9	B2-1- POST_DAY_10
Sample Matrix			Leachate - MEP	Leachate - MEP	Leachate - MEP	Leachate - MEP
Eurofins Sample No.			B23- Oc0047600	B23- Oc0047601	B23- Oc0047602	B23- Oc0047603
Date Sampled			Oct 19, 2023	Oct 19, 2023	Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	6.0	6.0	6.0	6.0
pH (initial)	0.1	pH Units	3.5	3.4	3.3	3.4
pH (Leachate fluid)	0.1	pH Units	2.8	2.8	2.8	2.8
pH (off)	0.1	pH Units	3.6	3.5	3.2	3.3
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTeDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	64	109	102	72
13C5-PFPeA (surr.)	1	%	72	124	116	83
13C5-PFHxA (surr.)	1	%	79	134	118	89
13C4-PFHpA (surr.)	1	%	75	111	105	80
13C8-PFOA (surr.)	1	%	59	107	104	70
13C5-PFNA (surr.)	1	%	53	104	85	66
13C6-PFDA (surr.)	1	%	57	104	85	70
13C2-PFUnDA (surr.)	1	%	42	107	94	58
13C2-PFDoDA (surr.)	1	%	30	80	64	48
13C2-PFTeDA (surr.)	1	%	36	99	80	87

Client Sample ID			B2-1- POST_DAY_7	B2-1- POST_DAY_8	B2-1- POST_DAY_9	B2-1- POST_DAY_10
Sample Matrix			Leachate - MEP	Leachate - MEP	Leachate - MEP	Leachate - MEP
Eurofins Sample No.			B23- Oc0047600	B23- Oc0047601	B23- Oc0047602	B23- Oc0047603
Date Sampled			Oct 19, 2023	Oct 19, 2023	Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	71	89	92	78
D3-N-MeFOSA (surr.)	1	%	53	99	124	118
D5-N-EtFOSA (surr.)	1	%	41	106	141	97
D7-N-MeFOSE (surr.)	1	%	62	86	91	83
D9-N-EtFOSE (surr.)	1	%	41	81	77	56
D5-N-EtFOSAA (surr.)	1	%	28	78	67	40
D3-N-MeFOSAA (surr.)	1	%	31	80	67	37
Perfluoroalkyl sulfonic acids (PFSA's)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	54	105	92	65
18O2-PFHxS (surr.)	1	%	60	98	92	78
13C8-PFOS (surr.)	1	%	53	97	82	70
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	94	68	68	98
13C2-6:2 FTSA (surr.)	1	%	76	61	46	62
13C2-8:2 FTSA (surr.)	1	%	37	98	82	55
13C2-10:2 FTSA (surr.)	1	%	44	93	67	61
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			B2-2-POST AUS Leachate - TOP B23- Oc0047606 Oct 19, 2023	B2-3-POST AUS Leachate - TOP B23- Oc0047609 Oct 19, 2023	B2-3- POST_DAY_1 Leachate - MEP B23- Oc0047610 Oct 19, 2023	B2-3- POST_DAY_2 Leachate - MEP B23- Oc0047611 Oct 19, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	6.0	6.0
pH (initial)	0.1	pH Units	N/A	N/A	4.2	5.4
pH (Leachate fluid)	0.1	pH Units	7.0	7.0	n/a	2.8
pH (off)	0.1	pH Units	7.9	7.7	5.1	5.6
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	0.05	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	0.05	0.04	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	0.08	0.08	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	0.04	0.03	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTeDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	114	INT	84	114
13C5-PFPeA (surr.)	1	%	118	22	105	133
13C5-PFHxA (surr.)	1	%	104	98	91	120
13C4-PFHpA (surr.)	1	%	98	103	109	138
13C8-PFOA (surr.)	1	%	98	126	127	135
13C5-PFNA (surr.)	1	%	103	129	77	110
13C6-PFDA (surr.)	1	%	109	142	76	106
13C2-PFUnDA (surr.)	1	%	86	137	77	104
13C2-PFDoDA (surr.)	1	%	86	126	63	95
13C2-PFTeDA (surr.)	1	%	73	97	41	52
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	87	114	36	72
D3-N-MeFOSA (surr.)	1	%	65	112	INT	17
D5-N-EtFOSA (surr.)	1	%	64	97	INT	15
D7-N-MeFOSE (surr.)	1	%	61	79	18	38
D9-N-EtFOSE (surr.)	1	%	58	69	15	34
D5-N-EtFOSAA (surr.)	1	%	78	104	55	86
D3-N-MeFOSAA (surr.)	1	%	84	113	55	79

Client Sample ID			B2-2-POST AUS Leachate - TOP B23- Oc0047606 Oct 19, 2023	B2-3-POST AUS Leachate - TOP B23- Oc0047609 Oct 19, 2023	B2-3- POST_DAY_1 Leachate - MEP B23- Oc0047610 Oct 19, 2023	B2-3- POST_DAY_2 Leachate - MEP B23- Oc0047611 Oct 19, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	110	95	121	131
18O2-PFHxS (surr.)	1	%	102	124	127	143
13C8-PFOS (surr.)	1	%	93	130	87	122
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	60	68	67	130
13C2-6:2 FTSA (surr.)	1	%	89	146	76	124
13C2-8:2 FTSA (surr.)	1	%	127	197	82	147
13C2-10:2 FTSA (surr.)	1	%	112	167	104	141
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.04	0.03	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.04	0.03	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	0.22	0.15	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	0.22	0.15	< 0.1	< 0.1

Client Sample ID			B2-3- POST_DAY_3 Leachate - MEP B23- Oc0047612 Oct 19, 2023	B2-3- POST_DAY_4 Leachate - MEP B23- Oc0047613 Oct 19, 2023	B2-3- POST_DAY_5 Leachate - MEP B23- Oc0047614 Oct 19, 2023	B2-3- POST_DAY_6 Leachate - MEP B23- Oc0047615 Oct 19, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	6.0	6.0	6.0	6.0
pH (initial)	0.1	pH Units	5.4	5.2	5.2	4.1
pH (Leachate fluid)	0.1	pH Units	2.8	2.8	2.8	2.8
pH (off)	0.1	pH Units	5.2	5.0	4.1	3.8
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			B2-3- POST_DAY_3	B2-3- POST_DAY_4	B2-3- POST_DAY_5	B2-3- POST_DAY_6
Sample Matrix			Leachate - MEP	Leachate - MEP	Leachate - MEP	Leachate - MEP
Eurofins Sample No.			B23- Oc0047612	B23- Oc0047613	B23- Oc0047614	B23- Oc0047615
Date Sampled			Oct 19, 2023	Oct 19, 2023	Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTeDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	105	143	101	89
13C5-PFPeA (surr.)	1	%	114	136	109	123
13C5-PFHxA (surr.)	1	%	101	95	128	103
13C4-PFHpA (surr.)	1	%	119	82	112	120
13C8-PFOA (surr.)	1	%	130	135	117	125
13C5-PFNA (surr.)	1	%	95	135	85	91
13C6-PFDA (surr.)	1	%	87	150	87	87
13C2-PFUnDA (surr.)	1	%	85	109	78	118
13C2-PFDoDA (surr.)	1	%	84	99	75	111
13C2-PFTeDA (surr.)	1	%	52	73	72	108
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	67	101	81	108
D3-N-MeFOSA (surr.)	1	%	39	64	49	23
D5-N-EtFOSA (surr.)	1	%	35	49	58	24
D7-N-MeFOSE (surr.)	1	%	62	96	72	25
D9-N-EtFOSE (surr.)	1	%	53	89	63	30
D5-N-EtFOSAA (surr.)	1	%	73	102	69	102
D3-N-MeFOSAA (surr.)	1	%	64	110	69	107
Perfluoroalkyl sulfonic acids (PFSA's)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	119	121	107	76
18O2-PFHxS (surr.)	1	%	126	128	109	85
13C8-PFOS (surr.)	1	%	98	109	83	114

Client Sample ID			B2-3- POST_DAY_3	B2-3- POST_DAY_4	B2-3- POST_DAY_5	B2-3- POST_DAY_6
Sample Matrix			Leachate - MEP	Leachate - MEP	Leachate - MEP	Leachate - MEP
Eurofins Sample No.			B23- Oc0047612	B23- Oc0047613	B23- Oc0047614	B23- Oc0047615
Date Sampled			Oct 19, 2023	Oct 19, 2023	Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	106	143	INT	99
13C2-6:2 FTSA (surr.)	1	%	97	51	151	93
13C2-8:2 FTSA (surr.)	1	%	102	116	102	93
13C2-10:2 FTSA (surr.)	1	%	145	126	74	92
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			B2-3- POST_DAY_7	B2-3- POST_DAY_8	B2-3- POST_DAY_9	B2-3- POST_DAY_10
Sample Matrix			Leachate - MEP	Leachate - MEP	Leachate - MEP	Leachate - MEP
Eurofins Sample No.			B23- Oc0047616	B23- Oc0047617	B23- Oc0047618	B23- Oc0047619
Date Sampled			Oct 19, 2023	Oct 19, 2023	Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	6.0	6.0	6.0	6.0
pH (initial)	0.1	pH Units	3.5	3.5	3.4	3.3
pH (Leachate fluid)	0.1	pH Units	2.8	2.8	2.8	2.8
pH (off)	0.1	pH Units	3.7	3.4	3.1	3.2
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTriDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	78	90	87	97
13C5-PFPeA (surr.)	1	%	78	98	108	100
13C5-PFHxA (surr.)	1	%	84	103	117	108
13C4-PFHpA (surr.)	1	%	94	97	97	114
13C8-PFOA (surr.)	1	%	78	97	98	90

Client Sample ID			B2-3- POST_DAY_7	B2-3- POST_DAY_8	B2-3- POST_DAY_9	B2-3- POST_DAY_10
Sample Matrix			Leachate - MEP	Leachate - MEP	Leachate - MEP	Leachate - MEP
Eurofins Sample No.			B23- Oc0047616	B23- Oc0047617	B23- Oc0047618	B23- Oc0047619
Date Sampled			Oct 19, 2023	Oct 19, 2023	Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C5-PFNA (surr.)	1	%	68	87	84	90
13C6-PFDA (surr.)	1	%	75	85	82	93
13C2-PFUnDA (surr.)	1	%	55	90	94	78
13C2-PFDoDA (surr.)	1	%	35	61	62	56
13C2-PFTeDA (surr.)	1	%	28	55	77	61
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	74	76	87	71
D3-N-MeFOSA (surr.)	1	%	49	45	50	69
D5-N-EtFOSA (surr.)	1	%	32	39	50	55
D7-N-MeFOSE (surr.)	1	%	44	78	53	68
D9-N-EtFOSE (surr.)	1	%	41	44	53	57
D5-N-EtFOSAA (surr.)	1	%	39	67	68	52
D3-N-MeFOSAA (surr.)	1	%	37	68	69	49
Perfluoroalkyl sulfonic acids (PFSA's)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	58	82	94	77
18O2-PFHxS (surr.)	1	%	72	90	95	91
13C8-PFOS (surr.)	1	%	66	81	88	93
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	132	44	50	127
13C2-6:2 FTSA (surr.)	1	%	94	45	44	99
13C2-8:2 FTSA (surr.)	1	%	52	66	77	63
13C2-10:2 FTSA (surr.)	1	%	57	77	55	80

Client Sample ID			B2-3- POST_DAY_7	B2-3- POST_DAY_8	B2-3- POST_DAY_9	B2-3- POST_DAY_10
Sample Matrix			Leachate - MEP	Leachate - MEP	Leachate - MEP	Leachate - MEP
Eurofins Sample No.			B23- Oc0047616	B23- Oc0047617	B23- Oc0047618	B23- Oc0047619
Date Sampled			Oct 19, 2023	Oct 19, 2023	Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			B2-4-POST	B2-5-POST	B3-1-POST	B3-1- POST_DAY_1
Sample Matrix			AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP	Leachate - MEP
Eurofins Sample No.			B23- Oc0047622	B23- Oc0047625	B23- Oc0047628	B23- Oc0047629
Date Sampled			Oct 19, 2023	Oct 19, 2023	Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	4.0	4.0	4.0	6.0
pH (initial)	0.1	pH Units	N/A	N/A	N/A	4.2
pH (Leachate fluid)	0.1	pH Units	7.0	7.0	7.0	n/a
pH (off)	0.1	pH Units	7.7	7.3	6.8	4.7
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	0.07	0.05	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	0.08	0.06	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	0.15	0.10	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	0.07	0.04	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTeDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	139	139	123	85
13C5-PFPeA (surr.)	1	%	149	141	150	99
13C5-PFHxA (surr.)	1	%	145	124	132	93
13C4-PFHpA (surr.)	1	%	118	124	132	112
13C8-PFOA (surr.)	1	%	122	116	133	126
13C5-PFNA (surr.)	1	%	126	117	130	88
13C6-PFDA (surr.)	1	%	132	123	106	83
13C2-PFUnDA (surr.)	1	%	114	94	82	83
13C2-PFDoDA (surr.)	1	%	114	109	96	80
13C2-PFTeDA (surr.)	1	%	87	94	86	44

Client Sample ID			B2-4-POST AUS Leachate - TOP B23- Oc0047622 Oct 19, 2023	B2-5-POST AUS Leachate - TOP B23- Oc0047625 Oct 19, 2023	B3-1-POST AUS Leachate - TOP B23- Oc0047628 Oct 19, 2023	B3-1- POST_DAY_1 Leachate - MEP B23- Oc0047629 Oct 19, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	110	101	98	57
D3-N-MeFOSA (surr.)	1	%	70	84	99	23
D5-N-EtFOSA (surr.)	1	%	59	76	75	24
D7-N-MeFOSE (surr.)	1	%	74	54	75	38
D9-N-EtFOSE (surr.)	1	%	69	67	75	36
D5-N-EtFOSAA (surr.)	1	%	94	91	92	69
D3-N-MeFOSAA (surr.)	1	%	102	100	110	63
Perfluoroalkyl sulfonic acids (PFSA's)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	^{N09} < 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	146	136	144	112
18O2-PFHxS (surr.)	1	%	124	133	130	124
13C8-PFOS (surr.)	1	%	113	108	89	99
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	95	75	99	77
13C2-6:2 FTSA (surr.)	1	%	128	107	154	67
13C2-8:2 FTSA (surr.)	1	%	177	146	71	95
13C2-10:2 FTSA (surr.)	1	%	131	131	89	120
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.07	0.04	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.07	0.04	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	0.37	0.25	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	0.38	0.25	< 0.1	< 0.1

Client Sample ID			B3-1- POST_DAY_2	B3-1- POST_DAY_3	B3-1- POST_DAY_4	B3-1- POST_DAY_5
Sample Matrix			Leachate - MEP	Leachate - MEP	Leachate - MEP	Leachate - MEP
Eurofins Sample No.			B23- Oc0047630	B23- Oc0047631	B23- Oc0047632	B23- Oc0047633
Date Sampled			Oct 19, 2023	Oct 19, 2023	Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	6.0	6.0	6.0	6.0
pH (initial)	0.1	pH Units	5.0	5.0	5.0	4.1
pH (Leachate fluid)	0.1	pH Units	2.8	2.8	2.8	2.8
pH (off)	0.1	pH Units	4.8	4.7	5.0	4.8
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTeDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	101	89	130	83
13C5-PFPeA (surr.)	1	%	121	103	131	98
13C5-PFHxA (surr.)	1	%	103	92	102	117
13C4-PFHpA (surr.)	1	%	126	108	68	96
13C8-PFOA (surr.)	1	%	132	127	141	98
13C5-PFNA (surr.)	1	%	104	86	131	79
13C6-PFDA (surr.)	1	%	98	71	130	82
13C2-PFUnDA (surr.)	1	%	94	74	118	70
13C2-PFDoDA (surr.)	1	%	87	78	106	60
13C2-PFTeDA (surr.)	1	%	46	48	87	62
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	73	60	111	69
D3-N-MeFOSA (surr.)	1	%	37	46	114	35
D5-N-EtFOSA (surr.)	1	%	34	44	92	38
D7-N-MeFOSE (surr.)	1	%	65	57	110	56
D9-N-EtFOSE (surr.)	1	%	56	53	105	47
D5-N-EtFOSAA (surr.)	1	%	80	65	84	59
D3-N-MeFOSAA (surr.)	1	%	76	59	111	59

Client Sample ID			B3-1- POST_DAY_2	B3-1- POST_DAY_3	B3-1- POST_DAY_4	B3-1- POST_DAY_5
Sample Matrix			Leachate - MEP	Leachate - MEP	Leachate - MEP	Leachate - MEP
Eurofins Sample No.			B23- Oc0047630	B23- Oc0047631	B23- Oc0047632	B23- Oc0047633
Date Sampled			Oct 19, 2023	Oct 19, 2023	Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	124	119	124	94
18O2-PFHxS (surr.)	1	%	125	120	129	93
13C8-PFOS (surr.)	1	%	112	85	110	80
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	101	72	120	163
13C2-6:2 FTSA (surr.)	1	%	87	100	44	155
13C2-8:2 FTSA (surr.)	1	%	113	84	163	103
13C2-10:2 FTSA (surr.)	1	%	134	133	136	64
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			B3-1- POST_DAY_6	B3-1- POST_DAY_7	B3-1- POST_DAY_8	B3-1- POST_DAY_9
Sample Matrix			Leachate - MEP	Leachate - MEP	Leachate - MEP	Leachate - MEP
Eurofins Sample No.			B23- Oc0047634	B23- Oc0047635	B23- Oc0047636	B23- Oc0047637
Date Sampled			Oct 19, 2023	Oct 19, 2023	Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	6.0	6.0	6.0	6.0
pH (initial)	0.1	pH Units	3.7	3.5	3.4	3.4
pH (Leachate fluid)	0.1	pH Units	2.8	2.8	2.8	2.8
pH (off)	0.1	pH Units	4.4	4.2	3.9	3.2
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			B3-1- POST_DAY_6 Leachate - MEP B23- Oc0047634 Oct 19, 2023	B3-1- POST_DAY_7 Leachate - MEP B23- Oc0047635 Oct 19, 2023	B3-1- POST_DAY_8 Leachate - MEP B23- Oc0047636 Oct 19, 2023	B3-1- POST_DAY_9 Leachate - MEP B23- Oc0047637 Oct 19, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTeDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	56	79	105	80
13C5-PFPeA (surr.)	1	%	82	90	118	100
13C5-PFHxA (surr.)	1	%	72	103	123	98
13C4-PFHpA (surr.)	1	%	79	104	114	83
13C8-PFOA (surr.)	1	%	76	74	106	87
13C5-PFNA (surr.)	1	%	57	70	89	80
13C6-PFDA (surr.)	1	%	53	94	89	77
13C2-PFUnDA (surr.)	1	%	75	70	101	91
13C2-PFDoDA (surr.)	1	%	69	48	72	57
13C2-PFTeDA (surr.)	1	%	74	72	87	59
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	74	113	93	75
D3-N-MeFOSA (surr.)	1	%	131	134	75	35
D5-N-EtFOSA (surr.)	1	%	104	117	82	29
D7-N-MeFOSE (surr.)	1	%	42	84	82	63
D9-N-EtFOSE (surr.)	1	%	43	66	73	39
D5-N-EtFOSAA (surr.)	1	%	68	52	76	63
D3-N-MeFOSAA (surr.)	1	%	72	44	71	62
Perfluoroalkyl sulfonic acids (PFSA's)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	53	74	96	74
18O2-PFHxS (surr.)	1	%	54	88	101	80
13C8-PFOS (surr.)	1	%	71	72	90	76

Client Sample ID			B3-1- POST_DAY_6	B3-1- POST_DAY_7	B3-1- POST_DAY_8	B3-1- POST_DAY_9
Sample Matrix			Leachate - MEP	Leachate - MEP	Leachate - MEP	Leachate - MEP
Eurofins Sample No.			B23- Oc0047634	B23- Oc0047635	B23- Oc0047636	B23- Oc0047637
Date Sampled			Oct 19, 2023	Oct 19, 2023	Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	59	100	63	48
13C2-6:2 FTSA (surr.)	1	%	55	112	51	47
13C2-8:2 FTSA (surr.)	1	%	57	59	79	68
13C2-10:2 FTSA (surr.)	1	%	55	73	84	59
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			B3-1- POST_DAY_10	B3-2-POST	B3-3-POST	B3-3- POST_DAY_1
Sample Matrix			Leachate - MEP	AUS Leachate - TOP	AUS Leachate - TOP	Leachate - MEP
Eurofins Sample No.			B23- Oc0047638	B23- Oc0047641	B23- Oc0047644	B23- Oc0047645
Date Sampled			Oct 19, 2023	Oct 19, 2023	Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	6.0	4.0	4.0	6.0
pH (initial)	0.1	pH Units	3.6	N/A	N/A	4.2
pH (Leachate fluid)	0.1	pH Units	2.8	7.0	7.0	n/a
pH (off)	0.1	pH Units	3.2	8.9	8.7	4.7
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	96	INT	134	95
13C5-PFPeA (surr.)	1	%	110	^{Q09} 31	143	113
13C5-PFHxA (surr.)	1	%	112	139	115	91
13C4-PFHpA (surr.)	1	%	116	130	124	128
13C8-PFOA (surr.)	1	%	94	138	113	132

Client Sample ID			B3-1- POST_DAY_10 Leachate - MEP B23- Oc0047638 Oct 19, 2023	B3-2-POST AUS Leachate - TOP B23- Oc0047641 Oct 19, 2023	B3-3-POST AUS Leachate - TOP B23- Oc0047644 Oct 19, 2023	B3-3- POST_DAY_1 Leachate - MEP B23- Oc0047645 Oct 19, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C5-PFNA (surr.)	1	%	85	145	129	94
13C6-PFDA (surr.)	1	%	98	114	117	87
13C2-PFUnDA (surr.)	1	%	79	135	92	86
13C2-PFDoDA (surr.)	1	%	55	121	115	80
13C2-PFTeDA (surr.)	1	%	56	90	92	50
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	113	121	112	55
D3-N-MeFOSA (surr.)	1	%	139	130	94	28
D5-N-EtFOSA (surr.)	1	%	111	126	89	32
D7-N-MeFOSE (surr.)	1	%	83	61	77	38
D9-N-EtFOSE (surr.)	1	%	67	73	78	35
D5-N-EtFOSAA (surr.)	1	%	54	107	85	77
D3-N-MeFOSAA (surr.)	1	%	53	107	107	66
Perfluoroalkyl sulfonic acids (PFSA's)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	^{N09} < 0.01	0.02
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	84	128	126	122
18O2-PFHxS (surr.)	1	%	109	148	140	134
13C8-PFOS (surr.)	1	%	87	132	100	120
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	136	94	80	75
13C2-6:2 FTSA (surr.)	1	%	116	156	95	90
13C2-8:2 FTSA (surr.)	1	%	65	92	57	95
13C2-10:2 FTSA (surr.)	1	%	83	102	98	151

Client Sample ID			B3-1- POST_DAY_10	B3-2-POST	B3-3-POST	B3-3- POST_DAY_1
Sample Matrix			Leachate - MEP	AUS Leachate - TOP	AUS Leachate - TOP	Leachate - MEP
Eurofins Sample No.			B23- Oc0047638	B23- Oc0047641	B23- Oc0047644	B23- Oc0047645
Date Sampled			Oct 19, 2023	Oct 19, 2023	Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	0.02
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	0.02
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	0.02
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			B3-3- POST_DAY_2	B3-3- POST_DAY_3	B3-3- POST_DAY_4	B3-3- POST_DAY_5
Sample Matrix			Leachate - MEP	Leachate - MEP	Leachate - MEP	Leachate - MEP
Eurofins Sample No.			B23- Oc0047646	B23- Oc0047647	B23- Oc0047648	B23- Oc0047649
Date Sampled			Oct 19, 2023	Oct 19, 2023	Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	6.0	6.0	6.0	6.0
pH (initial)	0.1	pH Units	4.9	4.9	4.9	4.9
pH (Leachate fluid)	0.1	pH Units	2.8	2.8	2.8	2.8
pH (off)	0.1	pH Units	4.8	4.8	5.2	4.8
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTeDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	98	111	142	82
13C5-PFPeA (surr.)	1	%	119	124	135	99
13C5-PFHxA (surr.)	1	%	104	110	80	113
13C4-PFHpA (surr.)	1	%	118	135	72	85
13C8-PFOA (surr.)	1	%	128	131	154	87
13C5-PFNA (surr.)	1	%	102	103	140	70
13C6-PFDA (surr.)	1	%	97	91	129	76
13C2-PFUnDA (surr.)	1	%	92	89	112	62
13C2-PFDoDA (surr.)	1	%	92	84	103	59
13C2-PFTeDA (surr.)	1	%	56	50	83	64

Client Sample ID			B3-3- POST_DAY_2	B3-3- POST_DAY_3	B3-3- POST_DAY_4	B3-3- POST_DAY_5
Sample Matrix			Leachate - MEP	Leachate - MEP	Leachate - MEP	Leachate - MEP
Eurofins Sample No.			B23- Oc0047646	B23- Oc0047647	B23- Oc0047648	B23- Oc0047649
Date Sampled			Oct 19, 2023	Oct 19, 2023	Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	67	81	101	80
D3-N-MeFOSA (surr.)	1	%	31	69	95	57
D5-N-EtFOSA (surr.)	1	%	31	68	85	49
D7-N-MeFOSE (surr.)	1	%	48	71	108	60
D9-N-EtFOSE (surr.)	1	%	41	65	101	58
D5-N-EtFOSAA (surr.)	1	%	81	73	84	54
D3-N-MeFOSAA (surr.)	1	%	74	71	107	59
Perfluoroalkyl sulfonic acids (PFSA's)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	123	125	126	90
18O2-PFHxS (surr.)	1	%	134	132	124	85
13C8-PFOS (surr.)	1	%	104	105	114	75
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	83	117	139	136
13C2-6:2 FTSA (surr.)	1	%	91	100	50	135
13C2-8:2 FTSA (surr.)	1	%	118	119	126	98
13C2-10:2 FTSA (surr.)	1	%	120	120	128	62
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			B3-3- POST_DAY_6	B3-3- POST_DAY_7	B3-3- POST_DAY_8	B3-3- POST_DAY_9
Sample Matrix			Leachate - MEP	Leachate - MEP	Leachate - MEP	Leachate - MEP
Eurofins Sample No.			B23- Oc0047650	B23- Oc0047651	B23- Oc0047652	B23- Oc0047653
Date Sampled			Oct 19, 2023	Oct 19, 2023	Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	6.0	6.0	6.0	6.0
pH (initial)	0.1	pH Units	4.4	3.6	3.5	3.3
pH (Leachate fluid)	0.1	pH Units	2.8	2.8	2.8	2.8
pH (off)	0.1	pH Units	4.4	4.1	3.9	3.2
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTeDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	79	83	95	83
13C5-PFPeA (surr.)	1	%	117	102	114	101
13C5-PFHxA (surr.)	1	%	105	108	120	118
13C4-PFHpA (surr.)	1	%	111	107	94	94
13C8-PFOA (surr.)	1	%	107	87	103	95
13C5-PFNA (surr.)	1	%	82	85	94	79
13C6-PFDA (surr.)	1	%	72	94	99	83
13C2-PFUnDA (surr.)	1	%	92	74	102	97
13C2-PFDoDA (surr.)	1	%	77	56	73	61
13C2-PFTeDA (surr.)	1	%	62	69	84	80
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	41	89	88	85
D3-N-MeFOSA (surr.)	1	%	19	143	62	50
D5-N-EtFOSA (surr.)	1	%	15	127	59	57
D7-N-MeFOSE (surr.)	1	%	16	86	80	67
D9-N-EtFOSE (surr.)	1	%	10	63	63	71
D5-N-EtFOSAA (surr.)	1	%	75	48	73	69
D3-N-MeFOSAA (surr.)	1	%	90	50	71	67

Client Sample ID			B3-3- POST_DAY_6	B3-3- POST_DAY_7	B3-3- POST_DAY_8	B3-3- POST_DAY_9
Sample Matrix			Leachate - MEP	Leachate - MEP	Leachate - MEP	Leachate - MEP
Eurofins Sample No.			B23- Oc0047650	B23- Oc0047651	B23- Oc0047652	B23- Oc0047653
Date Sampled			Oct 19, 2023	Oct 19, 2023	Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	71	70	96	97
18O2-PFHxS (surr.)	1	%	82	94	87	85
13C8-PFOS (surr.)	1	%	107	84	90	82
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	75	158	58	62
13C2-6:2 FTSA (surr.)	1	%	107	124	58	34
13C2-8:2 FTSA (surr.)	1	%	76	69	77	65
13C2-10:2 FTSA (surr.)	1	%	73	81	89	61
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			B3-3- POST_DAY_10	B3-4-POST	B3-5-POST	QC19
Sample Matrix			Leachate - MEP	AUS Leachate - TOP	AUS Leachate - TOP	AUS Leachate - TOP
Eurofins Sample No.			B23- Oc0047654	B23- Oc0047657	B23- Oc0047660	B23- Oc0047661
Date Sampled			Oct 19, 2023	Oct 19, 2023	Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit				
AUS Leaching Procedure						
Leachate Fluid ^{C01}		comment	6.0	4.0	4.0	4.0
pH (initial)	0.1	pH Units	3.7	N/A	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	2.8	7.0	7.0	7.0
pH (off)	0.1	pH Units	3.2	6.9	9.5	11
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	0.40
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	0.39
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	0.26
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	0.13

Client Sample ID			B3-3- POST_DAY_10 Leachate - MEP B23- Oc0047654 Oct 19, 2023	B3-4-POST AUS Leachate - TOP B23- Oc0047657 Oct 19, 2023	B3-5-POST AUS Leachate - TOP B23- Oc0047660 Oct 19, 2023	QC19 AUS Leachate - TOP B23- Oc0047661 Oct 19, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	0.06
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	0.04	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	0.04	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTeDA) ^{N15}	0.01	ug/L	< 0.01	0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	74	INT	99	101
13C5-PFPeA (surr.)	1	%	84	15	95	110
13C5-PFHxA (surr.)	1	%	78	83	92	108
13C4-PFHpA (surr.)	1	%	86	128	85	109
13C8-PFOA (surr.)	1	%	69	131	85	72
13C5-PFNA (surr.)	1	%	66	141	89	56
13C6-PFDA (surr.)	1	%	75	148	101	48
13C2-PFUnDA (surr.)	1	%	54	141	83	41
13C2-PFDoDA (surr.)	1	%	40	128	86	49
13C2-PFTeDA (surr.)	1	%	37	77	73	41
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	55	123	80	39
D3-N-MeFOSA (surr.)	1	%	41	138	66	22
D5-N-EtFOSA (surr.)	1	%	33	129	57	23
D7-N-MeFOSE (surr.)	1	%	41	81	63	26
D9-N-EtFOSE (surr.)	1	%	33	59	50	23
D5-N-EtFOSAA (surr.)	1	%	41	111	81	41
D3-N-MeFOSAA (surr.)	1	%	42	115	78	43
Perfluoroalkyl sulfonic acids (PFSA's)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	0.02	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	^{N09} 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	0.03	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	58	96	100	107
18O2-PFHxS (surr.)	1	%	76	142	97	75
13C8-PFOS (surr.)	1	%	58	134	91	46

Client Sample ID			B3-3-POST_DAY_10 Leachate - MEP B23-Oc0047654 Oct 19, 2023	B3-4-POST AUS Leachate - TOP B23-Oc0047657 Oct 19, 2023	B3-5-POST AUS Leachate - TOP B23-Oc0047660 Oct 19, 2023	QC19 AUS Leachate - TOP B23-Oc0047661 Oct 19, 2023
Sample Matrix						
Eurofins Sample No.						
Date Sampled						
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	0.05	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	139	58	53	61
13C2-6:2 FTSA (surr.)	1	%	65	150	76	68
13C2-8:2 FTSA (surr.)	1	%	45	94	112	48
13C2-10:2 FTSA (surr.)	1	%	57	122	99	53
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	0.01	< 0.01	0.06
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	0.01	< 0.01	0.06
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	1.24
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	0.26	< 0.1	1.24

Client Sample ID			QC21 AUS Leachate - TOP B23-Oc0047662 Oct 19, 2023	QC23 AUS Leachate - TOP B23-Oc0047663 Oct 19, 2023
Sample Matrix				
Eurofins Sample No.				
Date Sampled				
Test/Reference	LOR	Unit		
AUS Leaching Procedure				
Leachate Fluid ^{C01}		comment	4.0	4.0
pH (initial)	0.1	pH Units	N/A	N/A
pH (Leachate fluid)	0.1	pH Units	7.0	7.0
pH (off)	0.1	pH Units	7.7	9.6
Perfluoroalkyl carboxylic acids (PFCAs)				
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	0.08	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	0.05	0.10
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	0.04	0.07
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	0.06	0.08
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	0.03	0.04
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	^{Q09} 19	117
13C5-PFPeA (surr.)	1	%	^{Q09} 11	106
13C5-PFHxA (surr.)	1	%	84	87
13C4-PFHpA (surr.)	1	%	118	89
13C8-PFOA (surr.)	1	%	148	86

Client Sample ID			QC21	QC23
Sample Matrix			AUS Leachate - TOP	AUS Leachate - TOP
Eurofins Sample No.			B23- Oc0047662	B23- Oc0047663
Date Sampled			Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit		
Perfluoroalkyl carboxylic acids (PFCAs)				
13C5-PFNA (surr.)	1	%	147	92
13C6-PFDA (surr.)	1	%	169	101
13C2-PFUnDA (surr.)	1	%	154	85
13C2-PFDoDA (surr.)	1	%	153	88
13C2-PFTeDA (surr.)	1	%	126	78
Perfluoroalkyl sulfonamido substances				
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	134	79
D3-N-MeFOSA (surr.)	1	%	117	80
D5-N-EtFOSA (surr.)	1	%	119	74
D7-N-MeFOSE (surr.)	1	%	85	70
D9-N-EtFOSE (surr.)	1	%	74	62
D5-N-EtFOSAA (surr.)	1	%	136	76
D3-N-MeFOSAA (surr.)	1	%	129	80
Perfluoroalkyl sulfonic acids (PFSA)				
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	88	101
18O2-PFHxS (surr.)	1	%	143	97
13C8-PFOS (surr.)	1	%	132	86
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	43	44
13C2-6:2 FTSA (surr.)	1	%	181	57
13C2-8:2 FTSA (surr.)	1	%	107	121
13C2-10:2 FTSA (surr.)	1	%	139	104

Client Sample ID			QC21	QC23
Sample Matrix			AUS Leachate - TOP	AUS Leachate - TOP
Eurofins Sample No.			B23- Oc0047662	B23- Oc0047663
Date Sampled			Oct 19, 2023	Oct 19, 2023
Test/Reference	LOR	Unit		
PFASs Summations				
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.03	0.04
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.03	0.04
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	0.26	0.29
Sum of PFASs (n=30)*	0.1	ug/L	0.26	0.29

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
AUS Leaching Procedure	Brisbane	Oct 21, 2023	7 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Brisbane	Oct 21, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Brisbane	Oct 21, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Brisbane	Oct 21, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Brisbane	Oct 21, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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

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

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35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

Company Name: ADE Consulting Group QLD Address: 10/53 Metroplex Ave Murarrie QLD 4172 Project Name: A103021.1540.00 Project ID: A103021.1540.00	Order No.: Report #: 1036893 Phone: 1300 796 922 Fax:	Received: Oct 19, 2023 4:30 PM Due: Nov 2, 2023 Priority: 10 Day Contact Name: Matthew Toole
Eurofins Analytical Services Manager : Zoe Flynn		

Sample Detail						Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
External Laboratory									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
1	B1-1-POST	Oct 19, 2023		Soil	B23-Oc0047556			X	X
2	B1-1-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047557	X		X	X
3	B1-1-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047558	X	X		X
4	B1-1-POST_DAY_1	Oct 19, 2023		Leachate - MEP	B23-Oc0047559		X		X
5	B1-1-POST_DAY_2	Oct 19, 2023		Leachate - MEP	B23-Oc0047560		X		X
6	B1-1-POST_DAY_3	Oct 19, 2023		Leachate - MEP	B23-Oc0047561		X		X
7	B1-1-POST_DAY_4	Oct 19, 2023		Leachate - MEP	B23-Oc0047562		X		X
8	B1-1-POST_DAY_5	Oct 19, 2023		Leachate - MEP	B23-Oc0047563		X		X
9	B1-1-	Oct 19, 2023		Leachate -	B23-Oc0047564		X		X

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

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Auckland	Christchurch	Tauranga
35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

Company Name: ADE Consulting Group QLD Address: 10/53 Metroplex Ave Murarrie QLD 4172 Project Name: A103021.1540.00 Project ID: A103021.1540.00	Order No.: Report #: 1036893 Phone: 1300 796 922 Fax:	Received: Oct 19, 2023 4:30 PM Due: Nov 2, 2023 Priority: 10 Day Contact Name: Matthew Toole
Eurofins Analytical Services Manager : Zoe Flynn		

Sample Detail						Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
	POST_DAY_6			MEP					
10	B1-1-POST_DAY_7	Oct 19, 2023		Leachate - MEP	B23-Oc0047565		X		X
11	B1-1-POST_DAY_8	Oct 19, 2023		Leachate - MEP	B23-Oc0047566		X		X
12	B1-1-POST_DAY_9	Oct 19, 2023		Leachate - MEP	B23-Oc0047567		X		X
13	B1-1-POST_DAY_10	Oct 19, 2023		Leachate - MEP	B23-Oc0047568		X		X
14	B1-2-POST	Oct 19, 2023		Soil	B23-Oc0047569			X	X
15	B1-2-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047570	X		X	X
16	B1-2-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047571	X	X		X
17	B1-3-POST	Oct 19, 2023		Soil	B23-Oc0047572			X	X
18	B1-3-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047573	X		X	X
19	B1-3-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047574	X	X		X

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Company Name: ADE Consulting Group QLD Address: 10/53 Metroplex Ave Murarrie QLD 4172 Project Name: A103021.1540.00 Project ID: A103021.1540.00	Order No.: Report #: 1036893 Phone: 1300 796 922 Fax:	Received: Oct 19, 2023 4:30 PM Due: Nov 2, 2023 Priority: 10 Day Contact Name: Matthew Toole
Eurofins Analytical Services Manager : Zoe Flynn		

Sample Detail						Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
20	B1-3- POST_DAY_1	Oct 19, 2023		Leachate - MEP	B23-Oc0047575		X		X
21	B1-3- POST_DAY_2	Oct 19, 2023		Leachate - MEP	B23-Oc0047576		X		X
22	B1-3- POST_DAY_3	Oct 19, 2023		Leachate - MEP	B23-Oc0047577		X		X
23	B1-3- POST_DAY_4	Oct 19, 2023		Leachate - MEP	B23-Oc0047578		X		X
24	B1-3- POST_DAY_5	Oct 19, 2023		Leachate - MEP	B23-Oc0047579		X		X
25	B1-3- POST_DAY_6	Oct 19, 2023		Leachate - MEP	B23-Oc0047580		X		X
26	B1-3- POST_DAY_7	Oct 19, 2023		Leachate - MEP	B23-Oc0047581		X		X
27	B1-3- POST_DAY_8	Oct 19, 2023		Leachate - MEP	B23-Oc0047582		X		X
28	B1-3- POST_DAY_9	Oct 19, 2023		Leachate - MEP	B23-Oc0047583		X		X
29	B1-3-	Oct 19, 2023		Leachate -	B23-Oc0047584		X		X



Melbourne
6 Monterey Road
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Geelong
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NATA# 1261
Site# 18217

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ACT 2911
Tel: +61 2 6113 8091
NATA# 1261
Site# 25466

Brisbane
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NATA# 1261
Site# 20794

Newcastle
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Company Name: ADE Consulting Group QLD
Address: 10/53 Metroplex Ave
Murarrie
QLD 4172

Project Name: A103021.1540.00
Project ID: A103021.1540.00

Order No.:
Report #: 1036893
Phone: 1300 796 922
Fax:

Received: Oct 19, 2023 4:30 PM
Due: Nov 2, 2023
Priority: 10 Day
Contact Name: Matthew Toole

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail

Total Oxidisable Precursor

AUS Leaching Procedure

Moisture Set

Per- and Polyfluoroalkyl Substances (PFASs)

Brisbane Laboratory - NATA # 1261 Site # 20794

	POST_DAY_1_0			MEP				
30	B1-4-POST	Oct 19, 2023		Soil	B23-Oc0047585		X	X
31	B1-4-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047586	X	X	X
32	B1-4-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047587	X	X	X
33	B1-5-POST	Oct 19, 2023		Soil	B23-Oc0047588		X	X
34	B1-5-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047589	X	X	X
35	B1-5-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047590	X	X	X
36	B2-1-POST	Oct 19, 2023		Soil	B23-Oc0047591		X	X
37	B2-1-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047592	X	X	X
38	B2-1-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047593	X	X	X
39	B2-1-POST_DAY_1	Oct 19, 2023		Leachate - MEP	B23-Oc0047594		X	X
40	B2-1-POST_DAY_2	Oct 19, 2023		Leachate - MEP	B23-Oc0047595		X	X

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Perth
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Company Name: ADE Consulting Group QLD Address: 10/53 Metroplex Ave Murarrie QLD 4172 Project Name: A103021.1540.00 Project ID: A103021.1540.00	Order No.: Report #: 1036893 Phone: 1300 796 922 Fax:	Received: Oct 19, 2023 4:30 PM Due: Nov 2, 2023 Priority: 10 Day Contact Name: Matthew Toole
Eurofins Analytical Services Manager : Zoe Flynn		

Sample Detail						Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
41	B2-1-POST_DAY_3	Oct 19, 2023		Leachate - MEP	B23-Oc0047596		X		X
42	B2-1-POST_DAY_4	Oct 19, 2023		Leachate - MEP	B23-Oc0047597		X		X
43	B2-1-POST_DAY_5	Oct 19, 2023		Leachate - MEP	B23-Oc0047598		X		X
44	B2-1-POST_DAY_6	Oct 19, 2023		Leachate - MEP	B23-Oc0047599		X		X
45	B2-1-POST_DAY_7	Oct 19, 2023		Leachate - MEP	B23-Oc0047600		X		X
46	B2-1-POST_DAY_8	Oct 19, 2023		Leachate - MEP	B23-Oc0047601		X		X
47	B2-1-POST_DAY_9	Oct 19, 2023		Leachate - MEP	B23-Oc0047602		X		X
48	B2-1-POST_DAY_10	Oct 19, 2023		Leachate - MEP	B23-Oc0047603		X		X
49	B2-2-POST	Oct 19, 2023		Soil	B23-Oc0047604			X	X
50	B2-2-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047605	X		X	X



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Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail

Total Oxidisable Precursor
AUS Leaching Procedure
Moisture Set
Per- and Polyfluoroalkyl Substances (PFASs)

Brisbane Laboratory - NATA # 1261 Site # 20794

						X	X	X	X
51	B2-2-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047606	X	X		X
52	B2-3-POST	Oct 19, 2023		Soil	B23-Oc0047607			X	X
53	B2-3-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047608	X		X	X
54	B2-3-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047609	X	X		X
55	B2-3-POST_DAY_1	Oct 19, 2023		Leachate - MEP	B23-Oc0047610		X		X
56	B2-3-POST_DAY_2	Oct 19, 2023		Leachate - MEP	B23-Oc0047611		X		X
57	B2-3-POST_DAY_3	Oct 19, 2023		Leachate - MEP	B23-Oc0047612		X		X
58	B2-3-POST_DAY_4	Oct 19, 2023		Leachate - MEP	B23-Oc0047613		X		X
59	B2-3-POST_DAY_5	Oct 19, 2023		Leachate - MEP	B23-Oc0047614		X		X
60	B2-3-POST_DAY_6	Oct 19, 2023		Leachate - MEP	B23-Oc0047615		X		X

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QLD 4172

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Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
61	B2-3-POST_DAY_7	Oct 19, 2023		Leachate - MEP	B23-Oc0047616		X		X
62	B2-3-POST_DAY_8	Oct 19, 2023		Leachate - MEP	B23-Oc0047617		X		X
63	B2-3-POST_DAY_9	Oct 19, 2023		Leachate - MEP	B23-Oc0047618		X		X
64	B2-3-POST_DAY_10	Oct 19, 2023		Leachate - MEP	B23-Oc0047619		X		X
65	B2-4-POST	Oct 19, 2023		Soil	B23-Oc0047620			X	X
66	B2-4-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047621	X		X	X
67	B2-4-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047622	X	X		X
68	B2-5-POST	Oct 19, 2023		Soil	B23-Oc0047623			X	X
69	B2-5-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047624	X		X	X
70	B2-5-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047625	X	X		X
71	B3-1-POST	Oct 19, 2023		Soil	B23-Oc0047626			X	X

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Sample Detail						Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
72	B3-1-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047627	X		X	X
73	B3-1-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047628	X	X		X
74	B3-1-POST_DAY_1	Oct 19, 2023		Leachate - MEP	B23-Oc0047629		X		X
75	B3-1-POST_DAY_2	Oct 19, 2023		Leachate - MEP	B23-Oc0047630		X		X
76	B3-1-POST_DAY_3	Oct 19, 2023		Leachate - MEP	B23-Oc0047631		X		X
77	B3-1-POST_DAY_4	Oct 19, 2023		Leachate - MEP	B23-Oc0047632		X		X
78	B3-1-POST_DAY_5	Oct 19, 2023		Leachate - MEP	B23-Oc0047633		X		X
79	B3-1-POST_DAY_6	Oct 19, 2023		Leachate - MEP	B23-Oc0047634		X		X
80	B3-1-POST_DAY_7	Oct 19, 2023		Leachate - MEP	B23-Oc0047635		X		X
81	B3-1-POST_DAY_8	Oct 19, 2023		Leachate - MEP	B23-Oc0047636		X		X

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Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
82	B3-1-POST_DAY_9	Oct 19, 2023		Leachate - MEP	B23-Oc0047637		X		X
83	B3-1-POST_DAY_10	Oct 19, 2023		Leachate - MEP	B23-Oc0047638		X		X
84	B3-2-POST	Oct 19, 2023		Soil	B23-Oc0047639			X	X
85	B3-2-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047640	X		X	X
86	B3-2-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047641	X	X		X
87	B3-3-POST	Oct 19, 2023		Soil	B23-Oc0047642			X	X
88	B3-3-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047643	X		X	X
89	B3-3-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047644	X	X		X
90	B3-3-POST_DAY_1	Oct 19, 2023		Leachate - MEP	B23-Oc0047645		X		X
91	B3-3-POST_DAY_2	Oct 19, 2023		Leachate - MEP	B23-Oc0047646		X		X
92	B3-3-	Oct 19, 2023		Leachate -	B23-Oc0047647		X		X



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AUS Leaching Procedure
Moisture Set
Per- and Polyfluoroalkyl Substances (PFASs)

Brisbane Laboratory - NATA # 1261 Site # 20794

	POST_DAY_3			MEP				
93	B3-3- POST_DAY_4	Oct 19, 2023		Leachate - MEP	B23-Oc0047648		x	x
94	B3-3- POST_DAY_5	Oct 19, 2023		Leachate - MEP	B23-Oc0047649		x	x
95	B3-3- POST_DAY_6	Oct 19, 2023		Leachate - MEP	B23-Oc0047650		x	x
96	B3-3- POST_DAY_7	Oct 19, 2023		Leachate - MEP	B23-Oc0047651		x	x
97	B3-3- POST_DAY_8	Oct 19, 2023		Leachate - MEP	B23-Oc0047652		x	x
98	B3-3- POST_DAY_9	Oct 19, 2023		Leachate - MEP	B23-Oc0047653		x	x
99	B3-3- POST_DAY_10	Oct 19, 2023		Leachate - MEP	B23-Oc0047654		x	x
100	B3-4-POST	Oct 19, 2023		Soil	B23-Oc0047655			x
101	B3-4-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047656	x		x



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Total Oxidisable Precursor

AUS Leaching Procedure

Moisture Set

Per- and Polyfluoroalkyl Substances (PFASs)

Brisbane Laboratory - NATA # 1261 Site # 20794

102	B3-4-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047657	X	X	X	X
103	B3-5-POST	Oct 19, 2023		Soil	B23-Oc0047658	X	X		X
104	B3-5-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047659	X		X	X
105	B3-5-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047660	X	X		X
106	QC19	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047661	X	X		X
107	QC21	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047662	X	X		X
108	QC23	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047663	X	X		X

Test Counts

33 78 30 108

Internal Quality Control Review and Glossary

General

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

Holding Times

Please refer to the '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 before sample receipt deadlines as stated on the SRA.

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

Holding times apply from the date of sampling; therefore, compliance with 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, 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
CEC	Cation Exchange Capacity
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 moisture has been determined on a solid sample, the result is expressed on a dry weight 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 represents 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 (<i>bis</i> -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. SVOCs recoveries 20 – 150%

PFAS field samples that contain surrogate recoveries above 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

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

Quality Control Results

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank									
Perfluoroalkyl carboxylic acids (PFCAs)									
Perfluorobutanoic acid (PFBA)			ug/L	< 0.05			0.05	Pass	
Perfluoropentanoic acid (PFPeA)			ug/L	< 0.01			0.01	Pass	
Perfluorohexanoic acid (PFHxA)			ug/L	< 0.01			0.01	Pass	
Perfluoroheptanoic acid (PFHpA)			ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)			ug/L	< 0.01			0.01	Pass	
Perfluorononanoic acid (PFNA)			ug/L	< 0.01			0.01	Pass	
Perfluorodecanoic acid (PFDA)			ug/L	< 0.01			0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)			ug/L	< 0.01			0.01	Pass	
Perfluorododecanoic acid (PFDoDA)			ug/L	< 0.01			0.01	Pass	
Perfluorotridecanoic acid (PFTTrDA)			ug/L	< 0.01			0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)			ug/L	< 0.01			0.01	Pass	
Method Blank									
Perfluoroalkyl sulfonamido substances									
Perfluorooctane sulfonamide (FOSA)			ug/L	< 0.05			0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)			ug/L	< 0.05			0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)			ug/L	< 0.05			0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)			ug/L	< 0.05			0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)			ug/L	< 0.05			0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)			ug/L	< 0.05			0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)			ug/L	< 0.05			0.05	Pass	
Method Blank									
Perfluoroalkyl sulfonic acids (PFSAs)									
Perfluorobutanesulfonic acid (PFBS)			ug/L	< 0.01			0.01	Pass	
Perfluorononanesulfonic acid (PFNS)			ug/L	< 0.01			0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)			ug/L	< 0.01			0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)			ug/L	< 0.01			0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)			ug/L	< 0.01			0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)			ug/L	< 0.01			0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)			ug/L	< 0.01			0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)			ug/L	< 0.01			0.01	Pass	
Method Blank									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)									
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)			ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)			ug/L	< 0.05			0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)			ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)			ug/L	< 0.01			0.01	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	B23-Oc0047641	CP	%	81			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	B23-Oc0047641	CP	%	95			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	B23-Oc0047641	CP	%	91			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	B23-Oc0047641	CP	%	79			50-150	Pass	
Perfluorooctanoic acid (PFOA)	B23-Oc0047641	CP	%	92			50-150	Pass	
Perfluorononanoic acid (PFNA)	B23-Oc0047641	CP	%	80			50-150	Pass	
Perfluorodecanoic acid (PFDA)	B23-Oc0047641	CP	%	65			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	B23-Oc0047641	CP	%	58			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorododecanoic acid (PFDoDA)	B23-Oc0047641	CP	%	54			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	B23-Oc0047641	CP	%	55			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	B23-Oc0047641	CP	%	61			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	B23-Oc0047641	CP	%	76			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Oc0047641	CP	%	59			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Oc0047641	CP	%	50			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Oc0047641	CP	%	62			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Oc0047641	CP	%	62			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Oc0047641	CP	%	56			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Oc0047641	CP	%	74			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	B23-Oc0047641	CP	%	93			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	B23-Oc0047641	CP	%	69			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	B23-Oc0047641	CP	%	64			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	B23-Oc0047641	CP	%	107			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	B23-Oc0047641	CP	%	92			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	B23-Oc0047641	CP	%	80			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	B23-Oc0047641	CP	%	88			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	B23-Oc0047641	CP	%	59			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Oc0047641	CP	%	85			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Oc0047641	CP	%	78			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Oc0047641	CP	%	82			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Oc0047641	CP	%	52			50-150	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	B23-Oc0047562	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	B23-Oc0047562	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	B23-Oc0047562	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	B23-Oc0047562	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	B23-Oc0047562	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorononanoic acid (PFNA)	B23-Oc0047562	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	B23-Oc0047562	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	B23-Oc0047562	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	B23-Oc0047562	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	B23-Oc0047562	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	B23-Oc0047562	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	B23-Oc0047562	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Oc0047562	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Oc0047562	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Oc0047562	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Oc0047562	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Oc0047562	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Oc0047562	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSA's)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	B23-Oc0047562	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	B23-Oc0047562	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	B23-Oc0047562	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	B23-Oc0047562	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	B23-Oc0047562	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	B23-Oc0047562	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	B23-Oc0047562	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSa)	B23-Oc0047562	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSa)	B23-Oc0047562	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSa)	B23-Oc0047562	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSa)	B23-Oc0047562	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	B23-Oc0047563	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	B23-Oc0047563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	B23-Oc0047563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	B23-Oc0047563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	B23-Oc0047563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanoic acid (PFNA)	B23-Oc0047563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	B23-Oc0047563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	B23-Oc0047563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	B23-Oc0047563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	B23-Oc0047563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	B23-Oc0047563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	B23-Oc0047563	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Oc0047563	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Oc0047563	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Oc0047563	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Oc0047563	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Oc0047563	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Oc0047563	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	B23-Oc0047563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	B23-Oc0047563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	B23-Oc0047563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	B23-Oc0047563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	B23-Oc0047563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	B23-Oc0047563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	B23-Oc0047563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	B23-Oc0047563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Oc0047563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Oc0047563	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Oc0047563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Oc0047563	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	B23-Oc0047564	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	B23-Oc0047564	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	B23-Oc0047564	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	B23-Oc0047564	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	B23-Oc0047564	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanoic acid (PFNA)	B23-Oc0047564	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	B23-Oc0047564	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	B23-Oc0047564	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	B23-Oc0047564	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	B23-Oc0047564	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	B23-Oc0047564	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	B23-Oc0047564	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Oc0047564	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Oc0047564	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Oc0047564	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Oc0047564	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Oc0047564	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Oc0047564	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	B23-Oc0047564	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	B23-Oc0047564	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	B23-Oc0047564	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	B23-Oc0047564	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	B23-Oc0047564	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	B23-Oc0047564	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	B23-Oc0047564	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	B23-Oc0047564	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSa)	B23-Oc0047564	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSa)	B23-Oc0047564	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSa)	B23-Oc0047564	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSa)	B23-Oc0047564	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	B23-Oc0047566	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	B23-Oc0047566	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	B23-Oc0047566	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	B23-Oc0047566	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	B23-Oc0047566	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanoic acid (PFNA)	B23-Oc0047566	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	B23-Oc0047566	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	B23-Oc0047566	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	B23-Oc0047566	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	B23-Oc0047566	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	B23-Oc0047566	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	B23-Oc0047566	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Oc0047566	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Oc0047566	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Oc0047566	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Oc0047566	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Oc0047566	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Oc0047566	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	B23-Oc0047566	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	B23-Oc0047566	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	B23-Oc0047566	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	B23-Oc0047566	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	B23-Oc0047566	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	B23-Oc0047566	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	B23-Oc0047566	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	B23-Oc0047566	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSa)	B23-Oc0047566	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSa)	B23-Oc0047566	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSa)	B23-Oc0047566	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSa)	B23-Oc0047566	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	B23-Oc0047576	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	B23-Oc0047576	CP	ug/L	0.02	0.02	10	30%	Pass
Perfluorohexanoic acid (PFHxA)	B23-Oc0047576	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	B23-Oc0047576	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	B23-Oc0047576	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanoic acid (PFNA)	B23-Oc0047576	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	B23-Oc0047576	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	B23-Oc0047576	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	B23-Oc0047576	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	B23-Oc0047576	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	B23-Oc0047576	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	B23-Oc0047576	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Oc0047576	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Oc0047576	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Oc0047576	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Oc0047576	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Oc0047576	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Oc0047576	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	B23-Oc0047576	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	B23-Oc0047576	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	B23-Oc0047576	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	B23-Oc0047576	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	B23-Oc0047576	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	B23-Oc0047576	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	B23-Oc0047576	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	B23-Oc0047576	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Oc0047576	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Oc0047576	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Oc0047576	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Oc0047576	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	B23-Oc0047612	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	B23-Oc0047612	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	B23-Oc0047612	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	B23-Oc0047612	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	B23-Oc0047612	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanoic acid (PFNA)	B23-Oc0047612	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	B23-Oc0047612	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	B23-Oc0047612	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	B23-Oc0047612	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	B23-Oc0047612	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	B23-Oc0047612	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	B23-Oc0047612	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Oc0047612	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Oc0047612	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Oc0047612	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Oc0047612	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Oc0047612	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Oc0047612	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	B23-Oc0047612	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	B23-Oc0047612	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	B23-Oc0047612	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	B23-Oc0047612	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	B23-Oc0047612	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	B23-Oc0047612	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	B23-Oc0047612	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	B23-Oc0047612	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Oc0047612	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Oc0047612	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Oc0047612	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Oc0047612	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	B23-Oc0047628	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	B23-Oc0047628	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	B23-Oc0047628	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	B23-Oc0047628	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	B23-Oc0047628	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanoic acid (PFNA)	B23-Oc0047628	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	B23-Oc0047628	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	B23-Oc0047628	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	B23-Oc0047628	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	B23-Oc0047628	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	B23-Oc0047628	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	B23-Oc0047628	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Oc0047628	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Oc0047628	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Oc0047628	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Oc0047628	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Oc0047628	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Oc0047628	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	B23-Oc0047628	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	B23-Oc0047628	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	B23-Oc0047628	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	B23-Oc0047628	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	B23-Oc0047628	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	B23-Oc0047628	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	B23-Oc0047628	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	B23-Oc0047628	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSa)	B23-Oc0047628	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSa)	B23-Oc0047628	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSa)	B23-Oc0047628	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSa)	B23-Oc0047628	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	B23-Oc0047644	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	B23-Oc0047644	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	B23-Oc0047644	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	B23-Oc0047644	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	B23-Oc0047644	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanoic acid (PFNA)	B23-Oc0047644	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	B23-Oc0047644	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	B23-Oc0047644	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	B23-Oc0047644	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	B23-Oc0047644	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	B23-Oc0047644	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	B23-Oc0047644	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Oc0047644	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Oc0047644	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Oc0047644	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Oc0047644	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Oc0047644	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Oc0047644	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	B23-Oc0047644	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	B23-Oc0047644	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	B23-Oc0047644	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	B23-Oc0047644	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	B23-Oc0047644	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	B23-Oc0047644	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	B23-Oc0047644	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	B23-Oc0047644	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSa)	B23-Oc0047644	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSa)	B23-Oc0047644	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSa)	B23-Oc0047644	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSa)	B23-Oc0047644	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	B23-Oc0047654	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	B23-Oc0047654	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	B23-Oc0047654	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	B23-Oc0047654	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	B23-Oc0047654	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanoic acid (PFNA)	B23-Oc0047654	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	B23-Oc0047654	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	B23-Oc0047654	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	B23-Oc0047654	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	B23-Oc0047654	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	B23-Oc0047654	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	B23-Oc0047654	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B23-Oc0047654	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B23-Oc0047654	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	B23-Oc0047654	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	B23-Oc0047654	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B23-Oc0047654	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B23-Oc0047654	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	B23-Oc0047654	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorononanesulfonic acid (PFNS)	B23-Oc0047654	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropropanesulfonic acid (PFPrS)	B23-Oc0047654	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	B23-Oc0047654	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	B23-Oc0047654	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	B23-Oc0047654	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	B23-Oc0047654	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B23-Oc0047654	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	B23-Oc0047654	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B23-Oc0047654	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B23-Oc0047654	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Comments

Sample Integrity

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

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other
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.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q09	The Surrogate recovery is outside of the recommended acceptance criteria due to matrix interference. Acceptance criteria were met for all other QC

Authorised by:

Zoe Flynn	Analytical Services Manager
Jonathon Angell	Senior Analyst-PFAS
Jonathon Angell	Senior Analyst-Sample Properties



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

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

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

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CERTIFICATE OF ANALYSIS

Work Order : **EB2332950**
Client : **ADE Consulting Group Pty Ltd**
Contact : **MR MATTHEW TOOLE**
Address : **10/53 METROPLEX AVENUE**
MURARRIE 4172
Telephone : **+61 02 94007711**
Project : **A103021.1540.00**
Order number : **----**
C-O-C number : **----**
Sampler : **----**
Site : **----**
Quote number : **EN/111**
No. of samples received : **3**
No. of samples analysed : **3**

Page : **1 of 6**
Laboratory : **Environmental Division Brisbane**
Contact : **Customer Services EB**
Address : **2 Byth Street Stafford QLD Australia 4053**
Telephone : **+61-7-3243 7222**
Date Samples Received : **23-Oct-2023 15:42**
Date Analysis Commenced : **24-Oct-2023**
Issue Date : **26-Oct-2023 15:45**



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.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Kim McCabe	Senior Inorganic Chemist	Brisbane Soil Preparation, Stafford, QLD
Matt Frost	Assistant Laboratory Manager	Brisbane Organics, Stafford, QLD



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.

- EN60: Where leachable PFAS analysis is requested, centrifugation rather than pressure filtration is used as the default approach for removal of particulates, in line with AS 4439.3.



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				QC20	QC22	QC24	----	----
Sampling date / time				19-Oct-2023 00:00	19-Oct-2023 00:00	19-Oct-2023 00:00	----	----
Compound	CAS Number	LOR	Unit	EB2332950-001	EB2332950-002	EB2332950-003	-----	-----
				Result	Result	Result	----	----
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	<0.01	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	----	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	0.6	0.2	<0.1	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	0.96	0.38	<0.02	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	0.71	0.48	<0.02	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	0.34	0.79	<0.02	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	0.16	0.55	<0.01	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	0.03	0.07	<0.02	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	----	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	<0.02	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	----	----



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				QC20	QC22	QC24	----	----
Sampling date / time				19-Oct-2023 00:00	19-Oct-2023 00:00	19-Oct-2023 00:00	----	----
Compound	CAS Number	LOR	Unit	EB2332950-001	EB2332950-002	EB2332950-003	-----	-----
				Result	Result	Result	----	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides - Continued								
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	<0.02	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	<0.02	----	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	----	----
EP231_TOP_P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	2.80	2.47	<0.01	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	<0.01	----	----
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.01	µg/L	2.80	2.47	<0.01	----	----
^ Sum of TOP C4 - C14 as Fluorine	----	0.01	µg/L	1.83	1.65	<0.01	----	----
EP231_TOP_S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	97.0	114	114	----	----
13C8-PFOA	----	0.02	%	100	114	114	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	QC20	QC22	QC24	----	----
Sampling date / time					19-Oct-2023 00:00	19-Oct-2023 00:00	19-Oct-2023 00:00	----	----
Compound	CAS Number	LOR	Unit		EB2332950-001	EB2332950-002	EB2332950-003	-----	-----
					Result	Result	Result	----	----
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)									
Extraction Fluid pH	----	0.1	pH Unit		7.0	7.0	7.0	----	----
Final pH	----	0.1	pH Unit		11.0	8.3	9.4	----	----



Surrogate Control Limits

Sub-Matrix: ASLP LEACHATE		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231_TOP_S: PFAS Surrogate			
13C4-PFOS	----	55	131
13C8-PFOA	----	66	128



CERTIFICATE OF ANALYSIS

Work Order : **EB2332809**
Client : **ADE Consulting Group Pty Ltd**
Contact : **MR MATTHEW TOOLE**
Address :
Telephone : ----
Project : **A103021.1540.00**
Order number : ----
C-O-C number : ----
Sampler : **MATTHEW TOOLE**
Site : ----
Quote number : **EN/111**
No. of samples received : **3**
No. of samples analysed : **3**

Page : 1 of 7
Laboratory : Environmental Division Brisbane
Contact : Customer Services EB
Address : 2 Byth Street Stafford QLD Australia 4053
Telephone : +61-7-3243 7222
Date Samples Received : 20-Oct-2023 15:58
Date Analysis Commenced : 21-Oct-2023
Issue Date : 30-Oct-2023 16:28



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
Kim McCabe	Senior Inorganic Chemist	Brisbane Soil Preparation, Stafford, QLD
Matt Frost	Assistant Laboratory Manager	Brisbane Organics, Stafford, QLD
Morgan Lennox	Senior Organic Chemist	Brisbane Organics, Stafford, QLD



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.

- EP231X - PFAS: The LOR for PFHxS and PFDS has been raised for samples 'QC02' (EB2332809-001) and 'QC06' (EB2332809-003) due to matrix interference.
- EP231X - PFAS: Sample 'QC02' (EB2332809-001) shows poor matrix spike recovery due to sample heterogeneity. Confirmed by visual inspection.
- EP231X - PFAS: Sample EB2332597-001 shows poor duplicate recovery due to heterogeneity. Confirmed by visual inspection.
- 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.
- EN60: Where leachable PFAS analysis is requested, centrifugation rather than pressure filtration is used as the default approach for removal of particulates, in line with AS 4439.3.



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				QC02	QC04	QC06	----	----
Sampling date / time				17-Oct-2023 00:00	17-Oct-2023 00:00	17-Oct-2023 00:00	----	----
Compound	CAS Number	LOR	Unit	EB2332809-001	EB2332809-002	EB2332809-003	-----	-----
				Result	Result	Result	----	----
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.03	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.03	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.04	0.26	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.02	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.07	0.26	1.80	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	----	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	11.3	1.3	0.2	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	30.1	3.29	0.32	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	15.6	1.78	0.55	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	5.46	1.93	0.13	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	1.86	0.87	0.12	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	0.29	0.14	<0.02	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	0.05	<0.02	<0.02	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorotridecanoic acid (PFTriDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	----	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	<0.02	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	----	----



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				QC02	QC04	QC06	----	----
Sampling date / time				17-Oct-2023 00:00	17-Oct-2023 00:00	17-Oct-2023 00:00	----	----
Compound	CAS Number	LOR	Unit	EB2332809-001	EB2332809-002	EB2332809-003	-----	-----
				Result	Result	Result	----	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides - Continued								
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	<0.02	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	<0.02	----	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	0.20	<0.05	<0.05	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	0.10	<0.05	<0.05	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	----	----
EP231_TOP_P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	65.0	9.61	3.46	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	0.07	0.30	2.06	----	----
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.01	µg/L	64.7	9.61	3.46	----	----
^ Sum of TOP C4 - C14 as Fluorine	----	0.01	µg/L	42.2	6.32	2.24	----	----
EP231_TOP_S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	89.5	108	100	----	----
13C8-PFOA	----	0.02	%	88.0	104	102	----	----

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	QC02	QC04	QC06	----	----
Sampling date / time				17-Oct-2023 00:00	17-Oct-2023 00:00	17-Oct-2023 00:00	----	----	
Compound	CAS Number	LOR	Unit	EB2332809-001	EB2332809-002	EB2332809-003	-----	-----	
				Result	Result	Result	----	----	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content		----	0.1	%	26.9	5.8	18.2	----	----
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)									
Extraction Fluid pH		----	0.1	pH Unit	7.0	7.0	7.0	----	----
Final pH		----	0.1	pH Unit	10.8	8.7	9.0	----	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0007	----	----	
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	<0.0002	0.0008	----	----	
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0004	0.0012	0.0064	----	----	
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	<0.0002	0.0006	----	----	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0014	0.0120	0.0563	----	----	
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	<0.0004	----	----	
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	0.019	<0.001	<0.001	----	----	
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	0.0645	0.0010	0.0008	----	----	
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0570	0.0022	0.0023	----	----	
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	0.0087	0.0027	0.0006	----	----	
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0021	0.0013	0.0008	----	----	
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	0.0002	0.0002	0.0002	----	----	
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.0002	<0.0002	----	----	
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	----	----	
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	----	----	
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	----	----	
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	----	----	
EP231C: Perfluoroalkyl Sulfonamides									



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	QC02	QC04	QC06	----	----
Sampling date / time					17-Oct-2023 00:00	17-Oct-2023 00:00	17-Oct-2023 00:00	----	----
Compound	CAS Number	LOR	Unit		EB2332809-001	EB2332809-002	EB2332809-003	-----	-----
					Result	Result	Result	----	----
EP231C: Perfluoroalkyl Sulfonamides - Continued									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg		<0.0002	<0.0002	0.0003	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg		0.0600	0.0078	0.0019	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		0.0165	0.0016	0.0009	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	----	----
EP231P: PFAS Sums									
Sum of PFAS	----	0.0002	mg/kg		0.229	0.0302	0.0726	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		0.0014	0.0132	0.0627	----	----
Sum of PFAS (WA DER List)	----	0.0002	mg/kg		0.229	0.0298	0.0707	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		76.5	79.0	82.5	----	----
13C8-PFOA	----	0.0002	%		101	100	94.0	----	----



Surrogate Control Limits

Sub-Matrix: ASLP LEACHATE		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231_TOP_S: PFAS Surrogate			
13C4-PFOS	----	55	131
13C8-PFOA	----	66	128

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	----	76	136
13C8-PFOA	----	78	131



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Company Name: ADE Consulting Group QLD
Address: 10/53 Metroplex Ave
Murarrie
QLD 4172

Project Name: A103021.1540.00
Project ID: A103021.1540.00

Order No.:
Report #: 1026894
Phone: 1300 796 922
Fax:

Received: Sep 19, 2023 8:46 AM
Due: Sep 20, 2023
Priority: 1 Day
Contact Name: Matthew Toole

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						HOLD	Moisture Set	Eurofins Suite B1	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X	X
External Laboratory										
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID					
1	W001	Sep 15, 2023		Water	B23-Se0039303			X		X
2	W002	Sep 15, 2023		Water	B23-Se0039304			X		X
3	W003	Sep 15, 2023		Water	B23-Se0039305			X		X
4	W004	Sep 15, 2023		Water	B23-Se0039306			X		X
5	W005	Sep 15, 2023		Water	B23-Se0039307			X		X
6	W006	Sep 15, 2023		Water	B23-Se0039308			X		X
7	W007	Sep 15, 2023		Water	B23-Se0039309			X		X
8	W008	Sep 15, 2023		Water	B23-Se0039310			X		X
9	W009	Sep 15, 2023		Water	B23-Se0039311			X		X
10	W010	Sep 15, 2023		Water	B23-Se0039312			X		X
11	S001	Sep 15, 2023		Soil	B23-Se0039313		X			X
12	S005	Sep 15, 2023		Soil	B23-Se0039314		X			X



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Sydney
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NSW 2145
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NATA# 1261
Site# 18217

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Mitchell
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NATA# 1261
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NATA# 1261
Site# 20794

Newcastle
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NATA# 1261
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email: EnviroSales@eurofins.com

Company Name: ADE Consulting Group QLD
Address: 10/53 Metroplex Ave
Murarrie
QLD 4172

Project Name: A103021.1540.00
Project ID: A103021.1540.00

Order No.:
Report #: 1026894
Phone: 1300 796 922
Fax:

Received: Sep 19, 2023 8:46 AM
Due: Sep 20, 2023
Priority: 1 Day
Contact Name: Matthew Toole

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						HOLD	Moisture Set	Eurofins Suite B1	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254								X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X	X
13	S006	Sep 15, 2023		Soil	B23-Se0039315		X			X
14	S008	Sep 15, 2023		Soil	B23-Se0039316		X			X
15	S002	Sep 15, 2023		Soil	B23-Se0039317	X				
16	S003	Sep 15, 2023		Soil	B23-Se0039318	X				
17	S004	Sep 15, 2023		Soil	B23-Se0039319	X				
18	S007	Sep 15, 2023		Soil	B23-Se0039320	X				
19	S009	Sep 15, 2023		Soil	B23-Se0039321	X				
20	S010	Sep 15, 2023		Soil	B23-Se0039322	X				
21	TRIP BLANK	Sep 15, 2023		Trip Blank (liquid)	B23-Se0040156				X	
Test Counts						6	4	10	1	14



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email: EnviroSales@eurofins.com

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Eurofins ARL Pty Ltd

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Eurofins Environment Testing NZ Ltd

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--	---	---

Company Name:

Address:

Project Name:

Project ID:

ADE Consulting Group QLD

10/53 Metroplex Ave

Murarrie

QLD 4172

A103021.1540.00

A103021.1540.00

Order No.:

Report #:

Phone:

Fax:

1028097

1300 796 922

Received:

Due:

Priority:

Contact Name:

Sep 21, 2023 2:33 PM

Sep 26, 2023

3 Day

Matthew Toole

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Total Oxidisable Precursor	Per- and Polyfluoroalkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X
External Laboratory							
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID		
1	W001	Sep 15, 2023		TOP - Product	B23-Se0049211	X	X
2	W002	Sep 15, 2023		TOP - Product	B23-Se0049212	X	X
3	W003	Sep 15, 2023		TOP - Product	B23-Se0049213	X	X
Test Counts						3	3

**Eurofins Environment Testing Australia Pty Ltd**

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ABN: 91 05 0159 898

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Company Name: ADE Consulting Group QLD
Address: 10/53 Metroplex Ave
Murarrie
QLD 4172

Project Name: A103021.1540.00
Project ID: A103021.1540.00

Order No.:
Report #: 1030176
Phone: 1300 796 922
Fax:

Received: Sep 28, 2023 3:40 PM
Due: Oct 4, 2023
Priority: 3 Day
Contact Name: Matthew Toole

Eurofins Analytical Services Manager : Zoe Flynn**Sample Detail****Brisbane Laboratory - NATA # 1261 Site # 20794****External Laboratory**

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID	Sample Comment	Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Eurofins Suite B1	Per- and Polyfluoralkyl Substances (PFASs)
1	BT-1-0-1	Sep 28, 2023		Soil	B23-Se0067052	X			X		X
2	BT-1-0-1	Sep 28, 2023		TOP - Soil	B23-Se0067053		X		X		X
3	BT-1-0-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067054		X	X			X
4	BT-1-0-2	Sep 28, 2023		Soil	B23-Se0067055				X		X
5	BT-1-0-2	Sep 28, 2023		TOP - Soil	B23-Se0067056		X		X		X
6	BT-1-0-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067057		X	X			X
7	BT-1-0-3	Sep 28, 2023		Soil	B23-Se0067058				X		X
8	BT-1-0-3	Sep 28, 2023		TOP - Soil	B23-Se0067059		X		X		X
9	BT-1-0-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067060		X	X			X
10	BT-1-1-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067061		X	X			X



Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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

Eurofins ARL Pty Ltd

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Eurofins Environment Testing NZ Ltd

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Company Name: ADE Consulting Group QLD
Address: 10/53 Metroplex Ave
Murarrie
QLD 4172
Project Name: A103021.1540.00
Project ID: A103021.1540.00

Order No.:
Report #: 1030176
Phone: 1300 796 922
Fax:

Received: Sep 28, 2023 3:40 PM
Due: Oct 4, 2023
Priority: 3 Day
Contact Name: Matthew Toole

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Sample Comment	Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Eurofins Suite B1	Per- and Polyfluoralkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X	X	X
11	BT-1-1-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067062		X	X			X
12	BT-1-1-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067063		X	X			X
13	BT-1-3-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067064		X	X			X
14	BT-1-3-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067065		X	X			X
15	BT-1-3-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067066		X	X			X
16	BT-1-5-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067067		X	X			X
17	BT-1-5-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067068		X	X			X
18	BT-1-5-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067069		X	X			X
19	BT-1	Sep 28, 2023		Soil	B23-Se0067070				X	X	
20	BT-2-0-1	Sep 28, 2023		Soil	B23-Se0067071				X		X

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Company Name: ADE Consulting Group QLD
Address: 10/53 Metroplex Ave
Murarrie
QLD 4172

Project Name: A103021.1540.00
Project ID: A103021.1540.00

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Contact Name: Matthew Toole

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Sample Comment	Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Eurofins Suite B1	Per- and Polyfluoralkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X	X	X
21	BT-2-0-1	Sep 28, 2023		TOP - Soil	B23-Se0067072		X		X		X
22	BT-2-0-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067073		X	X			X
23	BT-2-0-2	Sep 28, 2023		Soil	B23-Se0067074				X		X
24	BT-2-0-2	Sep 28, 2023		TOP - Soil	B23-Se0067075		X		X		X
25	BT-2-0-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067076		X	X			X
26	BT-2-0-3	Sep 28, 2023		Soil	B23-Se0067077				X		X
27	BT-2-0-3	Sep 28, 2023		TOP - Soil	B23-Se0067078		X		X		X
28	BT-2-0-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067079		X	X			X
29	BT-2-1-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067080		X	X			X
30	BT-2-1-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067081		X	X			X
31	BT-2-1-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067082		X	X			X
32	BT-2-3-1	Sep 28, 2023		AUS Leachate	B23-Se0067083		X	X			X

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Sample Detail						Sample Comment	Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Eurofins Suite B1	Per- and Polyfluoralkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X	X	X
				- TOP							
33	BT-2-3-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067084		X	X			X
34	BT-2-3-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067085		X	X			X
35	BT-2-5-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067086		X	X			X
36	BT-2-5-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067087		X	X			X
37	BT-2-5-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067088		X	X			X
38	BT-2	Sep 28, 2023		Soil	B23-Se0067089				X	X	
39	BT-3-0-1	Sep 28, 2023		Soil	B23-Se0067090				X		X
40	BT-3-0-1	Sep 28, 2023		TOP - Soil	B23-Se0067091		X		X		X
41	BT-3-0-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067092		X	X			X
42	BT-3-0-2	Sep 28, 2023		Soil	B23-Se0067093				X		X
43	BT-3-0-2	Sep 28, 2023		TOP - Soil	B23-Se0067094		X		X		X



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Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Sample Comment	Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Eurofins Suite B1	Per- and Polyfluoralkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X	X	X
44	BT-3-0-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067095		X	X			X
45	BT-3-0-3	Sep 28, 2023		Soil	B23-Se0067096				X		X
46	BT-3-0-3	Sep 28, 2023		TOP - Soil	B23-Se0067097		X		X		X
47	BT-3-0-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067098		X	X			X
48	BT-3-1-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067099		X	X			X
49	BT-3-1-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067100		X	X			X
50	BT-3-1-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067101		X	X			X
51	BT-3-3-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067102		X	X			X
52	BT-3-3-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067103		X	X			X
53	BT-3-3-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067104		X	X			X



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Company Name:	ADE Consulting Group QLD	Order No.:		Received:	Sep 28, 2023 3:40 PM
Address:	10/53 Metroplex Ave Murarrie QLD 4172	Report #:	1030176	Due:	Oct 4, 2023
		Phone:	1300 796 922	Priority:	3 Day
		Fax:		Contact Name:	Matthew Toole
Project Name:	A103021.1540.00				
Project ID:	A103021.1540.00				
Eurofins Analytical Services Manager : Zoe Flynn					

Sample Detail						Sample Comment	Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Eurofins Suite B1	Per- and Polyfluoralkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X	X	X
54	BT-3-5-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067105		X	X			X
55	BT-3-5-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067106		X	X			X
56	BT-3-5-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067107		X	X			X
57	BT-3	Sep 28, 2023		Soil	B23-Se0067108				X	X	
58	BT-4-0-1	Sep 28, 2023		Soil	B23-Se0067109				X		X
59	BT-4-0-1	Sep 28, 2023		TOP - Soil	B23-Se0067110		X		X		X
60	BT-4-0-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067111		X	X			X
61	BT-4-0-2	Sep 28, 2023		Soil	B23-Se0067112				X		X
62	BT-4-0-2	Sep 28, 2023		TOP - Soil	B23-Se0067113		X		X		X
63	BT-4-0-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067114		X	X			X
64	BT-4-0-3	Sep 28, 2023		Soil	B23-Se0067115				X		X
65	BT-4-0-3	Sep 28, 2023		TOP - Soil	B23-Se0067116		X		X		X



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Sample Detail						Sample Comment	Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Eurofins Suite B1	Per- and Polyfluoralkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X	X	X
66	BT-4-0-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067117		X	X			X
67	BT-4-1-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067118		X	X			X
68	BT-4-1-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067119		X	X			X
69	BT-4-1-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067120		X	X			X
70	BT-4-3-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067121		X	X			X
71	BT-4-3-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067122		X	X			X
72	BT-4-3-3	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067123		X	X			X
73	BT-4-5-1	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067124		X	X			X
74	BT-4-5-2	Sep 28, 2023		AUS Leachate - TOP	B23-Se0067125		X	X			X
75	BT-4-5-3	Sep 28, 2023		AUS Leachate	B23-Se0067126		X	X			X



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Fax:

Received: Sep 28, 2023 3:40 PM
Due: Oct 4, 2023
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Contact Name: Matthew Toole

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Sample Comment	Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Eurofins Suite B1	Per- and Polyfluoroalkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X	X	X
				- TOP							
76	BT-4	Sep 28, 2023		Soil	B23-Se0067127				X	X	
Test Counts						1	60	48	28	4	72



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Address: 10/53 Metroplex Ave
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QLD 4172

Project Name: A103021.1540.00
Project ID: A103021.1540.00

Order No.:
Report #: 1036504
Phone: 1300 796 922
Fax:

Received: Oct 19, 2023 3:20 PM
Due: Oct 23, 2023
Priority: 2 Day
Contact Name: Matthew Toole

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Ammonium Ion (as N)	Extractable Organofluorine (EOF)*	HOLD	Particle Size Distribution	pH (1:5 Aqueous extract at 25 °C as rec.)	Total Alkalinity (as CaCO3)	Total Organic Carbon	Total Oxidisable Precursor	Acid Sulfate Soils Field pH Test	AUS Leaching Procedure	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254						X					X	X					X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X		X			X	X	X	X		X	X
External Laboratory									X										
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID														
1	B1-1	Oct 16, 2023		Soil	B23-Oc0044704		X									X			X
2	B1-1	Oct 16, 2023		TOP - Soil	B23-Oc0044705								X			X			X
3	B1-1	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044706								X		X				X
4	B1-2	Oct 16, 2023		Soil	B23-Oc0044707		X									X			X
5	B1-2	Oct 16, 2023		TOP - Soil	B23-Oc0044708								X			X			X
6	B1-2	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044709								X		X				X
7	B1-3	Oct 16, 2023		Soil	B23-Oc0044710		X									X			X
8	B1-3	Oct 16, 2023		TOP - Soil	B23-Oc0044711								X			X			X
9	B1-3	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044712								X		X				X
10	B1-4	Oct 16, 2023		Soil	B23-Oc0044713		X									X			X



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Eurofins Environment Testing Australia Pty Ltd

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Company Name: ADE Consulting Group QLD
Address: 10/53 Metroplex Ave
Murarrie
QLD 4172

Project Name: A103021.1540.00
Project ID: A103021.1540.00

Order No.:
Report #: 1036504
Phone: 1300 796 922
Fax:

Received: Oct 19, 2023 3:20 PM
Due: Oct 23, 2023
Priority: 2 Day
Contact Name: Matthew Toole

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Ammonium Ion (as N)	Extractable Organofluorine (EOF)*	HOLD	Particle Size Distribution	pH (1:5 Aqueous extract at 25 °C as rec.)	Total Alkalinity (as CaCO3)	Total Organic Carbon	Total Oxidisable Precursor	Acid Sulfate Soils Field pH Test	AUS Leaching Procedure	Moisture Set	Cation Exchange Capacity	Total Recoverable Hydrocarbons	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254						X					X	X					X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X		X			X	X	X	X		X	X
11	B1-4	Oct 16, 2023		TOP - Soil	B23-Oc0044714								X			X			X
12	B1-4	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044715								X		X				X
13	B2-1	Oct 16, 2023		Soil	B23-Oc0044716		X									X			X
14	B2-1	Oct 16, 2023		TOP - Soil	B23-Oc0044717								X			X			X
15	B2-1	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044718								X		X				X
16	B2-2	Oct 16, 2023		Soil	B23-Oc0044719		X									X			X
17	B2-2	Oct 16, 2023		TOP - Soil	B23-Oc0044720								X			X			X
18	B2-2	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044721								X		X				X
19	B2-3	Oct 16, 2023		Soil	B23-Oc0044722		X									X			X
20	B2-3	Oct 16, 2023		TOP - Soil	B23-Oc0044723								X			X			X
21	B2-3	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044724								X		X				X
22	B2-4	Oct 16, 2023		Soil	B23-Oc0044725		X									X			X



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Melbourne Laboratory - NATA # 1261 Site # 1254						X					X	X					X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X		X			X	X	X	X		X	X
23	B2-4	Oct 16, 2023		TOP - Soil	B23-Oc0044726								X			X			X
24	B2-4	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044727								X		X				X
25	B3-1	Oct 16, 2023		Soil	B23-Oc0044728		X									X			X
26	B3-1	Oct 16, 2023		TOP - Soil	B23-Oc0044729								X			X			X
27	B3-1	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044730								X		X				X
28	B3-2	Oct 16, 2023		Soil	B23-Oc0044731		X									X			X
29	B3-2	Oct 16, 2023		TOP - Soil	B23-Oc0044732								X			X			X
30	B3-2	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044733								X		X				X
31	B3-3	Oct 16, 2023		Soil	B23-Oc0044734		X									X			X
32	B3-3	Oct 16, 2023		TOP - Soil	B23-Oc0044735								X			X			X
33	B3-3	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044736								X		X				X
34	B3-4	Oct 16, 2023		Soil	B23-Oc0044737		X									X			X



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Melbourne Laboratory - NATA # 1261 Site # 1254						X					X	X					X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X		X			X	X	X	X		X	X
35	B3-4	Oct 16, 2023		TOP - Soil	B23-Oc0044738								X			X			X
36	B3-4	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044739								X		X				X
37	B1-6	Oct 16, 2023		Soil	B23-Oc0044740		X									X			X
38	B1-6	Oct 16, 2023		TOP - Soil	B23-Oc0044741								X			X			X
39	B1-6	Oct 16, 2023		AUS Leachate - TOP	B23-Oc0044742								X		X				X
40	QC01	Oct 17, 2023		Soil	B23-Oc0044743											X			X
41	QC01	Oct 17, 2023		AUS Leachate - TOP	B23-Oc0044744								X		X				X
42	B2-6	Oct 17, 2023		Soil	B23-Oc0044745		X									X			X
43	B2-6	Oct 17, 2023		TOP - Soil	B23-Oc0044746								X			X			X
44	B2-6	Oct 17, 2023		AUS Leachate - TOP	B23-Oc0044747								X		X				X
45	QC03	Oct 17, 2023		Soil	B23-Oc0044748											X			X
46	QC03	Oct 17, 2023		AUS Leachate	B23-Oc0044749								X		X				X



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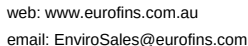
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Melbourne Laboratory - NATA # 1261 Site # 1254					X					X	X					X		
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X		X			X	X	X	X		X	X
				- TOP														
47	B3-6	Oct 17, 2023		Soil	B23-Oc0044750	X									X			X
48	B3-6	Oct 17, 2023		TOP - Soil	B23-Oc0044751							X			X			X
49	B3-6	Oct 17, 2023		AUS Leachate - TOP	B23-Oc0044752							X		X				X
50	QC05	Oct 17, 2023		Soil	B23-Oc0044753										X			X
51	QC05	Oct 17, 2023		AUS Leachate - TOP	B23-Oc0044754							X		X				X
52	B1-1	Oct 17, 2023		Soil	B23-Oc0044755	X		X	X	X	X		X		X	X	X	
53	B1-2	Oct 17, 2023		Soil	B23-Oc0044756	X		X	X	X	X		X		X	X	X	
54	B1-3	Oct 17, 2023		Soil	B23-Oc0044757	X		X	X	X	X		X		X	X	X	
55	B2-1	Oct 17, 2023		Soil	B23-Oc0044758	X		X	X	X	X		X		X	X	X	
56	B2-2	Oct 17, 2023		Soil	B23-Oc0044759	X		X	X	X	X		X		X	X	X	
57	B2-3	Oct 17, 2023		Soil	B23-Oc0044760	X		X	X	X	X		X		X	X	X	
58	B3-1	Oct 17, 2023		Soil	B23-Oc0044761	X		X	X	X	X		X		X	X	X	



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[illegible]



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Melbourne Laboratory - NATA # 1261 Site # 1254						X					X	X					X		
Brisbane Laboratory - NATA # 1261 Site # 20794							X	X		X			X	X	X	X		X	X
74	QC11	Oct 17, 2023		Soil	B23-Oc0044777			X											
75	QC12	Oct 17, 2023		Soil	B23-Oc0044778			X											
76	QC13	Oct 17, 2023		Soil	B23-Oc0044779			X											
77	QC14	Oct 17, 2023		Soil	B23-Oc0044780			X											
78	QC15	Oct 17, 2023		Soil	B23-Oc0044781			X											
79	QC16	Oct 17, 2023		Soil	B23-Oc0044782			X											
80	QC17	Oct 17, 2023		Soil	B23-Oc0044783			X											
81	QC18	Oct 17, 2023		Soil	B23-Oc0044784			X											
Test Counts						9	15	21	9	9	9	9	33	9	18	42	9	9	51



QUALITY CONTROL REPORT

Work Order : **EB2332809**

Page : 1 of 9

Client : **ADE Consulting Group Pty Ltd**
Contact : **MR MATTHEW TOOLE**
Address :
Telephone : ----
Project : **A103021.1540.00**
Order number : ----
C-O-C number : ----
Sampler : **MATTHEW TOOLE**
Site : ----
Quote number : **EN/111**
No. of samples received : **3**
No. of samples analysed : **3**

Laboratory : **Environmental Division Brisbane**
Contact : **Customer Services EB**
Address : **2 Byth Street Stafford QLD Australia 4053**
Telephone : **+61-7-3243 7222**
Date Samples Received : **20-Oct-2023**
Date Analysis Commenced : **21-Oct-2023**
Issue Date : **30-Oct-2023**



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
Kim McCabe	Senior Inorganic Chemist	Brisbane Soil Preparation, Stafford, QLD
Matt Frost	Assistant Laboratory Manager	Brisbane Organics, Stafford, QLD
Morgan Lennox	Senior Organic Chemist	Brisbane Organics, Stafford, QLD



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: 5376903)									
EB2331948-001	Anonymous	EA055: Moisture Content	----	0.1	%	<1.0	<1.0	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 5376882)									
EB2332597-001	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	0.0008	0.0009	18.4	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	0.0011	0.0010	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	0.0151	0.0174	14.1	0% - 20%
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	0.0015	0.0022	38.0	0% - 50%
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.149	# 0.185	21.4	0% - 20%
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0004	<0.0004	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5376882)									
EB2332597-001	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	0.0035	# 0.0050	33.8	0% - 20%
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0031	0.0039	23.0	0% - 50%
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	0.0018	0.0024	30.6	0% - 50%
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0018	0.0022	18.9	0% - 50%
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	0.0010	0.0009	12.7	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	0.0008	0.0007	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	0.0011	0.0012	9.3	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	0.0028	0.0024	16.6	No Limit
		EP231X: Perfluorotridecanoic acid (PFTeDA)	72629-94-8	0.0002	mg/kg	0.0017	0.0014	20.2	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	0.0010	0.0011	12.3	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.002	<0.002	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 5376882)									
EB2332597-001	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	0.0005	0.0004	30.1	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 (%)
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 5376882) - continued									
EB2332597-001	Anonymous	EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 5376882)									
EB2332597-001	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	<0.0018	<0.0005	110	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
Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids (QC Lot: 5382998)									
EB2332683-001	Anonymous	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.02	0.02	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EB2332950-002	Anonymous	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5382998)									
EB2332683-001	Anonymous	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit



Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5382998) - continued									
EB2332683-001	Anonymous	EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit
EB2332950-002	Anonymous	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	0.55	0.56	2.4	0% - 20%
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	0.38	0.39	0.0	0% - 50%
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	0.48	0.51	5.8	0% - 20%
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	0.79	0.84	6.3	0% - 20%
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	0.07	0.07	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	0.2	0.2	0.0	No Limit
EP231_TOP_C: Perfluoroalkyl Sulfonamides (QC Lot: 5382998)									
EB2332683-001	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EB2332950-002	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit



Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231_TOP_C: Perfluoroalkyl Sulfonamides (QC Lot: 5382998) - continued									
EB2332950-002	Anonymous	EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 5382998)									
EB2332683-001	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EB2332950-002	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231_TOP_P: PFAS Sums (QC Lot: 5382998)									
EB2332683-001	Anonymous	EP231X: Sum of PFAS	----	0.01	µg/L	0.02	0.02	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	0.02	0.02	0.0	No Limit
		EP231X: Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.01	µg/L	0.02	0.02	0.0	No Limit
		EP231X: Sum of TOP C4 - C14 as Fluorine	----	0.01	µg/L	0.01	0.01	0.0	No Limit
EB2332950-002	Anonymous	EP231X: Sum of PFAS	----	0.01	µg/L	2.47	2.57	4.0	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.01	µg/L	2.47	2.57	4.0	0% - 20%
		EP231X: Sum of TOP C4 - C14 as Fluorine	----	0.01	µg/L	1.65	1.72	4.0	0% - 20%



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**

Sub-Matrix: SOIL				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%) Low High	
Method: Compound	CAS Number	LOR	Unit	Result				
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel) (QCLot: 5375275)								
EN60a-P: Extraction Fluid pH	----	0.1	pH Unit	7.0	----	----	----	----
EN60a-P: Final pH	----	0.1	pH Unit	7.0	----	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5376882)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.0011 mg/kg	92.7	72.0	128
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00117 mg/kg	88.0	73.0	123
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.00118 mg/kg	88.1	67.0	130
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00119 mg/kg	92.8	70.0	132
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00116 mg/kg	89.2	68.0	136
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.0012 mg/kg	90.8	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5376882)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	97.0	71.0	135
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	88.0	69.0	132
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	82.8	70.0	132
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	88.4	71.0	131
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	95.6	69.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	104	72.0	129
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	97.6	69.0	133
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	87.6	64.0	136
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	90.4	69.0	135
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	101	66.0	139
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	86.8	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5376882)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	95.2	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	104	59.6	143
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	86.5	62.8	140
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	94.4	61.5	139
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	89.7	61.9	137
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	85.6	63.0	144



Sub-Matrix: SOIL				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%) Low High	
Method: Compound	CAS Number	LOR	Unit	Result				
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5376882) - continued								
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	94.4	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5376882)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00117 mg/kg	85.9	62.0	145
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00118 mg/kg	105	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	0.0012 mg/kg	93.8	65.0	137
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.0012 mg/kg	81.2	54.8	124

Sub-Matrix: WATER				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%) Low High	
Method: Compound	CAS Number	LOR	Unit	Result				
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids (QCLot: 5382998)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	----	----	----	----
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	----	----	----	----
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.949 µg/L	86.5	43.4	126
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	----	----	----	----
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.929 µg/L	87.6	33.4	118
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	----	----	----	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids (QCLot: 5382998)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	----	----	----	----
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	----	----	----	----
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	----	----	----	----
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	----	----	----	----
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	1 µg/L	98.2	47.7	124
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	----	----	----	----
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	----	----	----	----
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	----	----	----	----
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	----	----	----	----
EP231X: Perfluorotridecanoic acid (PFTriDA)	72629-94-8	0.02	µg/L	<0.02	----	----	----	----
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	----	----	----	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides (QCLot: 5382998)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	----	----	----	----
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	----	----	----	----
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	----	----	----	----
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	----	----	----	----



Sub-Matrix: **WATER**

Sub-Matrix: WATER				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result		LCS	Low	High
EP231_TOP_C: Perfluoroalkyl Sulfonamides (QCLot: 5382998) - continued								
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	----	----	----	----
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	----	----	----	----
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	----	----	----	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5382998)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	----	----	----	----
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.095 µg/L	-1.0	0	200
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	----	----	----	----
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	----	----	----	----
EP231_TOP_P: PFAS Sums (QCLot: 5382998)								
EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of TOP C4 - C14 as Fluorine	----	0.01	µg/L	<0.01	----	----	----	----

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**

Sub-Matrix: SOIL				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5376882)							
EB2332809-001	QC02	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0011 mg/kg	85.9	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00117 mg/kg	84.2	73.0	123
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00118 mg/kg	83.4	67.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00119 mg/kg	86.6	70.0	132
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00116 mg/kg	70.0	68.0	136
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0012 mg/kg	87.1	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5376882)							
EB2332809-001	QC02	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	# Not Determined	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	# Not Determined	69.0	132



Sub-Matrix: **SOIL**

Sub-Matrix: SOIL				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5376882) - continued							
EB2332809-001	QC02	EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	# Not Determined	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	# Not Determined	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	75.3	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	87.2	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	92.8	69.0	133
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	86.4	64.0	136
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	80.0	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.00125 mg/kg	92.0	66.0	139
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	80.0	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5376882)							
EB2332809-001	QC02	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	102	48.0	128
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.00312 mg/kg	98.1	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.00312 mg/kg	89.3	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	93.1	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	94.6	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	72.4	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	73.2	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5376882)							
EB2332809-001	QC02	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00117 mg/kg	71.7	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00118 mg/kg	# Not Determined	64.0	140
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0012 mg/kg	91.2	70.0	130



QA/QC Compliance Assessment to assist with Quality Review

Work Order	: EB2332809	Page	: 1 of 6
Client	: ADE Consulting Group Pty Ltd	Laboratory	: Environmental Division Brisbane
Contact	: MR MATTHEW TOOLE	Telephone	: +61-7-3243 7222
Project	: A103021.1540.00	Date Samples Received	: 20-Oct-2023
Site	: ----	Issue Date	: 30-Oct-2023
Sampler	: MATTHEW TOOLE	No. of samples received	: 3
Order number	: ----	No. of samples analysed	: 3

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** Laboratory Control outliers occur.
- Duplicate outliers exist - please see following pages for full details.
- Matrix Spike outliers exist - please see following pages for full details.
- 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

- **NO** Quality Control Sample Frequency Outliers exist.



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **SOIL**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Duplicate (DUP) RPDs							
EP231A: Perfluoroalkyl Sulfonic Acids	EB2332597--001	Anonymous	Perfluorooctane sulfonic acid (PFOS)	1763-23-1	21.4 %	0% - 20%	RPD exceeds LOR based limits
EP231B: Perfluoroalkyl Carboxylic Acids	EB2332597--001	Anonymous	Perfluoropentanoic acid (PFPeA)	2706-90-3	33.8 %	0% - 20%	RPD exceeds LOR based limits
Matrix Spike (MS) Recoveries							
EP231B: Perfluoroalkyl Carboxylic Acids	EB2332809--001	QC02	Perfluoropentanoic acid (PFPeA)	2706-90-3	Not Determined	----	MS recovery not determined, background level greater than or equal to 4x spike level.
EP231B: Perfluoroalkyl Carboxylic Acids	EB2332809--001	QC02	Perfluorohexanoic acid (PFHxA)	307-24-4	Not Determined	----	MS recovery not determined, background level greater than or equal to 4x spike level.
EP231B: Perfluoroalkyl Carboxylic Acids	EB2332809--001	QC02	Perfluoroheptanoic acid (PFHpA)	375-85-9	Not Determined	----	MS recovery not determined, background level greater than or equal to 4x spike level.
EP231D: (n:2) Fluorotelomer Sulfonic Acids	EB2332809--001	QC02	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	Not Determined	----	MS recovery not determined, background level greater than or equal to 4x spike level.

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		Sample Date	Extraction / Preparation			Analysis				
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation		
EA055: Moisture Content (Dried @ 105-110°C)										
HDPE Soil Jar (EA055) QC02, QC06		QC04,	17-Oct-2023	----	----	----	23-Oct-2023	31-Oct-2023	✓	
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)										
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-P)		QC02, QC04,	QC06	17-Oct-2023	21-Oct-2023	14-Apr-2024	✓	----	----	----



Matrix: **SOIL**

Evaluation: ✖ = Holding time breach ; ✔ = Within holding time.

Method		Sample Date	Extraction / Preparation			Analysis		
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231A: Perfluoroalkyl Sulfonic Acids								
HDPE Soil Jar (EP231X)	QC04,	17-Oct-2023	25-Oct-2023	14-Apr-2024	✓	26-Oct-2023	04-Dec-2023	✓
QC02,								
QC06								
EP231B: Perfluoroalkyl Carboxylic Acids								
HDPE Soil Jar (EP231X)	QC04,	17-Oct-2023	25-Oct-2023	14-Apr-2024	✓	26-Oct-2023	04-Dec-2023	✓
QC02,								
QC06								
EP231C: Perfluoroalkyl Sulfonamides								
HDPE Soil Jar (EP231X)	QC04,	17-Oct-2023	25-Oct-2023	14-Apr-2024	✓	26-Oct-2023	04-Dec-2023	✓
QC02,								
QC06								
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
HDPE Soil Jar (EP231X)	QC04,	17-Oct-2023	25-Oct-2023	14-Apr-2024	✓	26-Oct-2023	04-Dec-2023	✓
QC02,								
QC06								
EP231P: PFAS Sums								
HDPE Soil Jar (EP231X)	QC04,	17-Oct-2023	25-Oct-2023	14-Apr-2024	✓	26-Oct-2023	04-Dec-2023	✓
QC02,								
QC06								

Matrix: **WATER**

Evaluation: ✖ = Holding time breach ; ✔ = Within holding time.

Method		Sample Date	Extraction / Preparation			Analysis		
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids								
HDPE (no PTFE) (EP231X (TOP)) QC02, QC06	QC04,	21-Oct-2023	25-Oct-2023	18-Apr-2024	✓	26-Oct-2023	18-Apr-2024	✓
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids								
HDPE (no PTFE) (EP231X (TOP)) QC02, QC06	QC04,	21-Oct-2023	25-Oct-2023	18-Apr-2024	✓	26-Oct-2023	18-Apr-2024	✓
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
HDPE (no PTFE) (EP231X (TOP)) QC02, QC06	QC04,	21-Oct-2023	25-Oct-2023	18-Apr-2024	✓	26-Oct-2023	18-Apr-2024	✓
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
HDPE (no PTFE) (EP231X (TOP)) QC02, QC06	QC04,	21-Oct-2023	25-Oct-2023	18-Apr-2024	✓	26-Oct-2023	18-Apr-2024	✓



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	4	25.00	10.00	✔	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	6	16.67	10.00	✔	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	6	16.67	5.00	✔	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
ASLP for Non & Semivolatile Analytes - Plastic Leaching Vessel	EN60a-P	1	6	16.67	5.00	✔	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	6	16.67	5.00	✔	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	6	16.67	5.00	✔	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER**

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)							
PFAS by LCMSMS after oxidation (TOP)	EP231X (TOP)	2	12	16.67	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
PFAS by LCMSMS after oxidation (TOP)	EP231X (TOP)	1	12	8.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
PFAS by LCMSMS after oxidation (TOP)	EP231X (TOP)	1	12	8.33	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).
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.
PFAS by LCMSMS after oxidation (TOP)	EP231X (TOP)	SOIL	In house, following oxidation per Houtz,Erika F.; Sedlak,David L. (2012): Oxidative Conversion as a Means of Detecting Precursors to Perfluoroalkyl Acids in Urban Runoff. In Environmental Science & Technology 46 (17),pp. 9342-9349.: A portion of the oxidised sample is mixed with methanol (1:1) prior to analysis by LC-Electrospray-MS-MS,Negative Mode using MRM. Where commercially available, isotopically labelled analogues of the target analytes are used as internal standards for quantification. Where a labelled analogue is not commercially available, the internal standard with similar chemistry and the closest retention time to the target is used for quantification. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers.
Preparation Methods	Method	Matrix	Method Descriptions
ASLP for Non & Semivolatile Analytes - Plastic Leaching Vessel	EN60a-P	SOIL	In house QWI-EN/60 referenced to AS4439.3 Preparation of Leachates.
Total Oxidisable Precursor Digest for PFAS	* ORG70-W	SOIL	In-House with oxidation per Houtz, Erika F.; Sedlak, David L. (2012): Oxidative Conversion as a Means of Detecting Precursors to Perfluoroalkyl Acids in Urban Runoff. In Environmental Science & Technology 46 (17), pp. 9342-9349: A 5 mL sample is digested with persulfate under alkaline conditions, neutralised and prepared for analysis per EP231.
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.



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Company Name:

Address:

Project Name:

Project ID:

ADE Consulting Group QLD

10/53 Metroplex Ave

Murarrie

QLD 4172

A103021.1540.00

A103021.1540.00

Order No.:

Report #:

Phone:

Fax:

1036505

1300 796 922

Received:

Due:

Priority:

Contact Name:

Oct 19, 2023 3:20 PM

Nov 2, 2023

10 Day

Matthew Toole

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Q ToF Contaminant Screen	Moisture Set
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X
External Laboratory							
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID		
1	B1-1	Oct 16, 2023		Soil	B23-Oc0044785	X	X
2	B1-3	Oct 16, 2023		Soil	B23-Oc0044786	X	X
3	B2-1	Oct 16, 2023		Soil	B23-Oc0044787	X	X
4	B2-3	Oct 16, 2023		Soil	B23-Oc0044788	X	X
5	B3-1	Oct 16, 2023		Soil	B23-Oc0044789	X	X
6	B3-3	Oct 16, 2023		Soil	B23-Oc0044790	X	X
Test Counts						6	6



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Murarrie
QLD 4172
Project Name: A103021.1540.00
Project ID: A103021.1540.00

Order No.:
Report #: 1036893
Phone: 1300 796 922
Fax:

Received: Oct 19, 2023 4:30 PM
Due: Nov 2, 2023
Priority: 10 Day
Contact Name: Matthew Toole

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
External Laboratory									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
1	B1-1-POST	Oct 19, 2023		Soil	B23-Oc0047556			X	X
2	B1-1-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047557	X		X	X
3	B1-1-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047558	X	X		X
4	B1-1-POST_DAY_1	Oct 19, 2023		Leachate - MEP	B23-Oc0047559		X		X
5	B1-1-POST_DAY_2	Oct 19, 2023		Leachate - MEP	B23-Oc0047560		X		X
6	B1-1-POST_DAY_3	Oct 19, 2023		Leachate - MEP	B23-Oc0047561		X		X
7	B1-1-POST_DAY_4	Oct 19, 2023		Leachate - MEP	B23-Oc0047562		X		X
8	B1-1-POST_DAY_5	Oct 19, 2023		Leachate - MEP	B23-Oc0047563		X		X
9	B1-1-	Oct 19, 2023		Leachate -	B23-Oc0047564		X		X



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Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
	POST_DAY_6			MEP					
10	B1-1-POST_DAY_7	Oct 19, 2023		Leachate - MEP	B23-Oc0047565		X		X
11	B1-1-POST_DAY_8	Oct 19, 2023		Leachate - MEP	B23-Oc0047566		X		X
12	B1-1-POST_DAY_9	Oct 19, 2023		Leachate - MEP	B23-Oc0047567		X		X
13	B1-1-POST_DAY_10	Oct 19, 2023		Leachate - MEP	B23-Oc0047568		X		X
14	B1-2-POST	Oct 19, 2023		Soil	B23-Oc0047569			X	X
15	B1-2-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047570	X		X	X
16	B1-2-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047571	X	X		X
17	B1-3-POST	Oct 19, 2023		Soil	B23-Oc0047572			X	X
18	B1-3-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047573	X		X	X
19	B1-3-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047574	X	X		X



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Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
20	B1-3- POST_DAY_1	Oct 19, 2023		Leachate - MEP	B23-Oc0047575		X		X
21	B1-3- POST_DAY_2	Oct 19, 2023		Leachate - MEP	B23-Oc0047576		X		X
22	B1-3- POST_DAY_3	Oct 19, 2023		Leachate - MEP	B23-Oc0047577		X		X
23	B1-3- POST_DAY_4	Oct 19, 2023		Leachate - MEP	B23-Oc0047578		X		X
24	B1-3- POST_DAY_5	Oct 19, 2023		Leachate - MEP	B23-Oc0047579		X		X
25	B1-3- POST_DAY_6	Oct 19, 2023		Leachate - MEP	B23-Oc0047580		X		X
26	B1-3- POST_DAY_7	Oct 19, 2023		Leachate - MEP	B23-Oc0047581		X		X
27	B1-3- POST_DAY_8	Oct 19, 2023		Leachate - MEP	B23-Oc0047582		X		X
28	B1-3- POST_DAY_9	Oct 19, 2023		Leachate - MEP	B23-Oc0047583		X		X
29	B1-3-	Oct 19, 2023		Leachate -	B23-Oc0047584		X		X



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Sample Detail

Brisbane Laboratory - NATA # 1261 Site # 20794

						Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
	POST_DAY_1 0			MEP					
30	B1-4-POST	Oct 19, 2023		Soil	B23-Oc0047585			X	X
31	B1-4-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047586	X		X	X
32	B1-4-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047587	X	X		X
33	B1-5-POST	Oct 19, 2023		Soil	B23-Oc0047588			X	X
34	B1-5-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047589	X		X	X
35	B1-5-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047590	X	X		X
36	B2-1-POST	Oct 19, 2023		Soil	B23-Oc0047591			X	X
37	B2-1-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047592	X		X	X
38	B2-1-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047593	X	X		X
39	B2-1- POST_DAY_1	Oct 19, 2023		Leachate - MEP	B23-Oc0047594		X		X
40	B2-1- POST_DAY_2	Oct 19, 2023		Leachate - MEP	B23-Oc0047595		X		X



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Sample Detail						Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
41	B2-1- POST_DAY_3	Oct 19, 2023		Leachate - MEP	B23-Oc0047596		X		X
42	B2-1- POST_DAY_4	Oct 19, 2023		Leachate - MEP	B23-Oc0047597		X		X
43	B2-1- POST_DAY_5	Oct 19, 2023		Leachate - MEP	B23-Oc0047598		X		X
44	B2-1- POST_DAY_6	Oct 19, 2023		Leachate - MEP	B23-Oc0047599		X		X
45	B2-1- POST_DAY_7	Oct 19, 2023		Leachate - MEP	B23-Oc0047600		X		X
46	B2-1- POST_DAY_8	Oct 19, 2023		Leachate - MEP	B23-Oc0047601		X		X
47	B2-1- POST_DAY_9	Oct 19, 2023		Leachate - MEP	B23-Oc0047602		X		X
48	B2-1- POST_DAY_10	Oct 19, 2023		Leachate - MEP	B23-Oc0047603		X		X
49	B2-2-POST	Oct 19, 2023		Soil	B23-Oc0047604			X	X
50	B2-2-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047605	X		X	X



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Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
51	B2-2-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047606	X	X		X
52	B2-3-POST	Oct 19, 2023		Soil	B23-Oc0047607			X	X
53	B2-3-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047608	X		X	X
54	B2-3-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047609	X	X		X
55	B2-3-POST_DAY_1	Oct 19, 2023		Leachate - MEP	B23-Oc0047610		X		X
56	B2-3-POST_DAY_2	Oct 19, 2023		Leachate - MEP	B23-Oc0047611		X		X
57	B2-3-POST_DAY_3	Oct 19, 2023		Leachate - MEP	B23-Oc0047612		X		X
58	B2-3-POST_DAY_4	Oct 19, 2023		Leachate - MEP	B23-Oc0047613		X		X
59	B2-3-POST_DAY_5	Oct 19, 2023		Leachate - MEP	B23-Oc0047614		X		X
60	B2-3-POST_DAY_6	Oct 19, 2023		Leachate - MEP	B23-Oc0047615		X		X



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Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
61	B2-3-POST_DAY_7	Oct 19, 2023		Leachate - MEP	B23-Oc0047616		X		X
62	B2-3-POST_DAY_8	Oct 19, 2023		Leachate - MEP	B23-Oc0047617		X		X
63	B2-3-POST_DAY_9	Oct 19, 2023		Leachate - MEP	B23-Oc0047618		X		X
64	B2-3-POST_DAY_10	Oct 19, 2023		Leachate - MEP	B23-Oc0047619		X		X
65	B2-4-POST	Oct 19, 2023		Soil	B23-Oc0047620			X	X
66	B2-4-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047621	X		X	X
67	B2-4-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047622	X	X		X
68	B2-5-POST	Oct 19, 2023		Soil	B23-Oc0047623			X	X
69	B2-5-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047624	X		X	X
70	B2-5-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047625	X	X		X
71	B3-1-POST	Oct 19, 2023		Soil	B23-Oc0047626			X	X



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Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
72	B3-1-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047627	X		X	X
73	B3-1-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047628	X	X		X
74	B3-1-POST_DAY_1	Oct 19, 2023		Leachate - MEP	B23-Oc0047629		X		X
75	B3-1-POST_DAY_2	Oct 19, 2023		Leachate - MEP	B23-Oc0047630		X		X
76	B3-1-POST_DAY_3	Oct 19, 2023		Leachate - MEP	B23-Oc0047631		X		X
77	B3-1-POST_DAY_4	Oct 19, 2023		Leachate - MEP	B23-Oc0047632		X		X
78	B3-1-POST_DAY_5	Oct 19, 2023		Leachate - MEP	B23-Oc0047633		X		X
79	B3-1-POST_DAY_6	Oct 19, 2023		Leachate - MEP	B23-Oc0047634		X		X
80	B3-1-POST_DAY_7	Oct 19, 2023		Leachate - MEP	B23-Oc0047635		X		X
81	B3-1-POST_DAY_8	Oct 19, 2023		Leachate - MEP	B23-Oc0047636		X		X



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35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Company Name: ADE Consulting Group QLD
Address: 10/53 Metroplex Ave
Murarrie
QLD 4172

Project Name: A103021.1540.00
Project ID: A103021.1540.00

Order No.:
Report #: 1036893
Phone: 1300 796 922
Fax:

Received: Oct 19, 2023 4:30 PM
Due: Nov 2, 2023
Priority: 10 Day
Contact Name: Matthew Toole

Eurofins Analytical Services Manager : Zoe Flynn

Sample Detail						Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
82	B3-1- POST_DAY_9	Oct 19, 2023		Leachate - MEP	B23-Oc0047637		X		X
83	B3-1- POST_DAY_1 0	Oct 19, 2023		Leachate - MEP	B23-Oc0047638		X		X
84	B3-2-POST	Oct 19, 2023		Soil	B23-Oc0047639			X	X
85	B3-2-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047640	X		X	X
86	B3-2-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047641	X	X		X
87	B3-3-POST	Oct 19, 2023		Soil	B23-Oc0047642			X	X
88	B3-3-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047643	X		X	X
89	B3-3-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047644	X	X		X
90	B3-3- POST_DAY_1	Oct 19, 2023		Leachate - MEP	B23-Oc0047645		X		X
91	B3-3- POST_DAY_2	Oct 19, 2023		Leachate - MEP	B23-Oc0047646		X		X
92	B3-3-	Oct 19, 2023		Leachate -	B23-Oc0047647		X		X



Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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

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Sample Detail						Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
	POST_DAY_3			MEP					
93	B3-3-POST_DAY_4	Oct 19, 2023		Leachate - MEP	B23-Oc0047648		X		X
94	B3-3-POST_DAY_5	Oct 19, 2023		Leachate - MEP	B23-Oc0047649		X		X
95	B3-3-POST_DAY_6	Oct 19, 2023		Leachate - MEP	B23-Oc0047650		X		X
96	B3-3-POST_DAY_7	Oct 19, 2023		Leachate - MEP	B23-Oc0047651		X		X
97	B3-3-POST_DAY_8	Oct 19, 2023		Leachate - MEP	B23-Oc0047652		X		X
98	B3-3-POST_DAY_9	Oct 19, 2023		Leachate - MEP	B23-Oc0047653		X		X
99	B3-3-POST_DAY_10	Oct 19, 2023		Leachate - MEP	B23-Oc0047654		X		X
100	B3-4-POST	Oct 19, 2023		Soil	B23-Oc0047655			X	X
101	B3-4-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047656	X		X	X



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Sample Detail						Total Oxidisable Precursor	AUS Leaching Procedure	Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs)
Brisbane Laboratory - NATA # 1261 Site # 20794						X	X	X	X
102	B3-4-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047657	X	X		X
103	B3-5-POST	Oct 19, 2023		Soil	B23-Oc0047658			X	X
104	B3-5-POST	Oct 19, 2023		TOP - Soil	B23-Oc0047659	X		X	X
105	B3-5-POST	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047660	X	X		X
106	QC19	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047661	X	X		X
107	QC21	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047662	X	X		X
108	QC23	Oct 19, 2023		AUS Leachate - TOP	B23-Oc0047663	X	X		X
Test Counts						33	78	30	108



QUALITY CONTROL REPORT

Work Order : **EB2332950**

Page : 1 of 6

Client : **ADE Consulting Group Pty Ltd**

Contact : **MR MATTHEW TOOLE**

Address : **10/53 METROPLEX AVENUE
MURARRIE 4172**

Telephone : **+61 02 94007711**

Project : **A103021.1540.00**

Order number : ----

C-O-C number : ----

Sampler : ----

Site : ----

Quote number : **EN/111**

No. of samples received : **3**

No. of samples analysed : **3**

Laboratory : **Environmental Division Brisbane**

Contact : **Customer Services EB**

Address : **2 Byth Street Stafford QLD Australia 4053**

Telephone : **+61-7-3243 7222**

Date Samples Received : **23-Oct-2023**

Date Analysis Commenced : **24-Oct-2023**

Issue Date : **26-Oct-2023**



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
Kim McCabe	Senior Inorganic Chemist	Brisbane Soil Preparation, Stafford, QLD
Matt Frost	Assistant Laboratory Manager	Brisbane Organics, Stafford, QLD



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: **WATER**

Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids (QC Lot: 5382998)									
EB2332683-001	Anonymous	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.02	0.02	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EB2332950-002	QC22	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5382998)									
EB2332683-001	Anonymous	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTriDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit



Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5382998) - continued									
EB2332950-002	QC22	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	0.55	0.56	2.4	0% - 20%
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	0.38	0.39	0.0	0% - 50%
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	0.48	0.51	5.8	0% - 20%
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	0.79	0.84	6.3	0% - 20%
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	0.07	0.07	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	0.2	0.2	0.0	No Limit
EP231_TOP_C: Perfluoroalkyl Sulfonamides (QC Lot: 5382998)									
EB2332683-001	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EB2332950-002	QC22	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 5382998)									
EB2332683-001	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit



Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 5382998) - continued									
EB2332683-001	Anonymous	EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EB2332950-002	QC22	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231_TOP_P: PFAS Sums (QC Lot: 5382998)									
EB2332683-001	Anonymous	EP231X: Sum of PFAS	----	0.01	µg/L	0.02	0.02	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	0.02	0.02	0.0	No Limit
		EP231X: Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.01	µg/L	0.02	0.02	0.0	No Limit
		EP231X: Sum of TOP C4 - C14 as Fluorine	----	0.01	µg/L	0.01	0.01	0.0	No Limit
EB2332950-002	QC22	EP231X: Sum of PFAS	----	0.01	µg/L	2.47	2.57	4.0	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.01	µg/L	2.47	2.57	4.0	0% - 20%
		EP231X: Sum of TOP C4 - C14 as Fluorine	----	0.01	µg/L	1.65	1.72	4.0	0% - 20%



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			
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%)	
							Low	High
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel) (QCLot: 5379793)								
EN60a-P: Extraction Fluid pH	----	0.1	pH Unit	7.0	----	----	----	----
EN60a-P: Final pH	----	0.1	pH Unit	7.0	----	----	----	----

Sub-Matrix: **WATER**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%)	
							Low	High
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids (QCLot: 5382998)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	----	----	----	----
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	----	----	----	----
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.949 µg/L	86.5	43.4	126
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	----	----	----	----
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.929 µg/L	87.6	33.4	118
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	----	----	----	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids (QCLot: 5382998)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	----	----	----	----
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	----	----	----	----
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	----	----	----	----
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	----	----	----	----
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	1 µg/L	98.2	47.7	124
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	----	----	----	----
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	----	----	----	----
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	----	----	----	----
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	----	----	----	----
EP231X: Perfluorotridecanoic acid (PFTriDA)	72629-94-8	0.02	µg/L	<0.02	----	----	----	----
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	----	----	----	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides (QCLot: 5382998)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	----	----	----	----
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	----	----	----	----
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	----	----	----	----
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	----	----	----	----



Sub-Matrix: **WATER**

Sub-Matrix: WATER				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result			LCS	Low
EP231_TOP_C: Perfluoroalkyl Sulfonamides (QCLot: 5382998) - continued								
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	----	----	----	----
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	----	----	----	----
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	----	----	----	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5382998)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	----	----	----	----
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.095 µg/L	-1.0	0	200
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	----	----	----	----
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	----	----	----	----
EP231_TOP_P: PFAS Sums (QCLot: 5382998)								
EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of TOP C4 - C14 as Fluorine	----	0.01	µg/L	<0.01	----	----	----	----

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.

- **No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.**



QA/QC Compliance Assessment to assist with Quality Review

Work Order	: EB2332950	Page	: 1 of 4
Client	: ADE Consulting Group Pty Ltd	Laboratory	: Environmental Division Brisbane
Contact	: MR MATTHEW TOOLE	Telephone	: +61-7-3243 7222
Project	: A103021.1540.00	Date Samples Received	: 23-Oct-2023
Site	: ----	Issue Date	: 26-Oct-2023
Sampler	: ----	No. of samples received	: 3
Order number	: ----	No. of samples analysed	: 3

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

- **NO** Quality Control Sample Frequency Outliers exist.



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	Sample Date	Extraction / Preparation			Analysis		
Container / Client Sample ID(s)		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)							
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-P)							
QC20, QC24	19-Oct-2023	24-Oct-2023	16-Apr-2024	✔	----	----	----

Matrix: **WATER**

Evaluation: ✖ = Holding time breach ; ✔ = Within holding time.

Method	Sample Date	Extraction / Preparation			Analysis		
Container / Client Sample ID(s)		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids							
HDPE (no PTFE) (EP231X (TOP))							
QC20, QC24	24-Oct-2023	25-Oct-2023	21-Apr-2024	✔	26-Oct-2023	21-Apr-2024	✔
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids							
HDPE (no PTFE) (EP231X (TOP))							
QC20, QC24	24-Oct-2023	25-Oct-2023	21-Apr-2024	✔	26-Oct-2023	21-Apr-2024	✔
EP231_TOP_C: Perfluoroalkyl Sulfonamides							
HDPE (no PTFE) (EP231X (TOP))							
QC20, QC24	24-Oct-2023	25-Oct-2023	21-Apr-2024	✔	26-Oct-2023	21-Apr-2024	✔
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE (no PTFE) (EP231X (TOP))							
QC20, QC24	24-Oct-2023	25-Oct-2023	21-Apr-2024	✔	26-Oct-2023	21-Apr-2024	✔
EP231_TOP_P: PFAS Sums							
HDPE (no PTFE) (EP231X (TOP))							
QC20, QC24	24-Oct-2023	25-Oct-2023	21-Apr-2024	✔	26-Oct-2023	21-Apr-2024	✔



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	Method	Count		Rate (%)			Quality Control Specification
Analytical Methods		QC	Regular	Actual	Expected	Evaluation	
Method Blanks (MB)							
ASLP for Non & Semivolatile Analytes - Plastic Leaching Vessel	EN60a-P	1	3	33.33	5.00	✔	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER**

Evaluation: ✖ = Quality Control frequency not within specification ; ✔ = Quality Control frequency within specification.

Quality Control Sample Type	Method	Count		Rate (%)			Quality Control Specification
Analytical Methods		QC	Regular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
PFAS by LCMSMS after oxidation (TOP)	EP231X (TOP)	2	12	16.67	10.00	✔	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
PFAS by LCMSMS after oxidation (TOP)	EP231X (TOP)	1	12	8.33	5.00	✔	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
PFAS by LCMSMS after oxidation (TOP)	EP231X (TOP)	1	12	8.33	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
PFAS by LCMSMS after oxidation (TOP)	EP231X (TOP)	SOIL	In house, following oxidation per Houtz,Erika F.; Sedlak,David L. (2012): Oxidative Conversion as a Means of Detecting Precursors to Perfluoroalkyl Acids in Urban Runoff. In Environmental Science & Technology 46 (17),pp. 9342;9349.: A portion of the oxidised sample is mixed with methanol (1:1) prior to analysis by LC-Electrospray-MS-MS,Negative Mode using MRM. Where commercially available, isotopically labelled analogues of the target analytes are used as internal standards for quantification. Where a labelled analogue is not commercially available, the internal standard with similar chemistry and the closest retention time to the target is used for quantification. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers.
Preparation Methods	Method	Matrix	Method Descriptions
ASLP for Non & Semivolatile Analytes - Plastic Leaching Vessel	EN60a-P	SOIL	In house QWI-EN/60 referenced to AS4439.3 Preparation of Leachates.
Total Oxidisable Precursor Digest for PFAS	* ORG70-W	SOIL	In-House with oxidation per Houtz, Erika F.; Sedlak, David L. (2012): Oxidative Conversion as a Means of Detecting Precursors to Perfluoroalkyl Acids in Urban Runoff. In Environmental Science & Technology 46 (17), pp. 9342;9349: A 5 mL sample is digested with persulfate under alkaline conditions, neutralised and prepared for analysis per EP231.



QUALITY CONTROL REPORT

Work Order : **EB2332809**

Page : 1 of 9

Client : **ADE Consulting Group Pty Ltd**
Contact : **MR MATTHEW TOOLE**
Address :
Telephone : ----
Project : **A103021.1540.00**
Order number : ----
C-O-C number : ----
Sampler : **MATTHEW TOOLE**
Site : ----
Quote number : **EN/111**
No. of samples received : **3**
No. of samples analysed : **3**

Laboratory : **Environmental Division Brisbane**
Contact : **Customer Services EB**
Address : **2 Byth Street Stafford QLD Australia 4053**
Telephone : **+61-7-3243 7222**
Date Samples Received : **20-Oct-2023**
Date Analysis Commenced : **21-Oct-2023**
Issue Date : **30-Oct-2023**



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
Kim McCabe	Senior Inorganic Chemist	Brisbane Soil Preparation, Stafford, QLD
Matt Frost	Assistant Laboratory Manager	Brisbane Organics, Stafford, QLD
Morgan Lennox	Senior Organic Chemist	Brisbane Organics, Stafford, QLD



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: 5376903)									
EB2331948-001	Anonymous	EA055: Moisture Content	----	0.1	%	<1.0	<1.0	0.0	No Limit
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 5376882)									
EB2332597-001	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	0.0008	0.0009	18.4	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	0.0011	0.0010	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	0.0151	0.0174	14.1	0% - 20%
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	0.0015	0.0022	38.0	0% - 50%
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.149	# 0.185	21.4	0% - 20%
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0004	<0.0004	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5376882)									
EB2332597-001	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	0.0035	# 0.0050	33.8	0% - 20%
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0031	0.0039	23.0	0% - 50%
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	0.0018	0.0024	30.6	0% - 50%
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0018	0.0022	18.9	0% - 50%
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	0.0010	0.0009	12.7	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	0.0008	0.0007	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	0.0011	0.0012	9.3	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	0.0028	0.0024	16.6	No Limit
		EP231X: Perfluorotridecanoic acid (PFTeDA)	72629-94-8	0.0002	mg/kg	0.0017	0.0014	20.2	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	0.0010	0.0011	12.3	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.002	<0.002	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 5376882)									
EB2332597-001	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	0.0005	0.0004	30.1	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 (%)
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 5376882) - continued									
EB2332597-001	Anonymous	EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 5376882)									
EB2332597-001	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	<0.0018	<0.0005	110	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
Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids (QC Lot: 5382998)									
EB2332683-001	Anonymous	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.02	0.02	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EB2332950-002	Anonymous	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5382998)									
EB2332683-001	Anonymous	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit



Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids (QC Lot: 5382998) - continued									
EB2332683-001	Anonymous	EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit
EB2332950-002	Anonymous	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	0.55	0.56	2.4	0% - 20%
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	0.38	0.39	0.0	0% - 50%
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	0.48	0.51	5.8	0% - 20%
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	0.79	0.84	6.3	0% - 20%
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	0.07	0.07	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	0.2	0.2	0.0	No Limit
EP231_TOP_C: Perfluoroalkyl Sulfonamides (QC Lot: 5382998)									
EB2332683-001	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EB2332950-002	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit



Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231_TOP_C: Perfluoroalkyl Sulfonamides (QC Lot: 5382998) - continued									
EB2332950-002	Anonymous	EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 5382998)									
EB2332683-001	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EB2332950-002	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231_TOP_P: PFAS Sums (QC Lot: 5382998)									
EB2332683-001	Anonymous	EP231X: Sum of PFAS	----	0.01	µg/L	0.02	0.02	0.0	No Limit
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	0.02	0.02	0.0	No Limit
		EP231X: Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.01	µg/L	0.02	0.02	0.0	No Limit
		EP231X: Sum of TOP C4 - C14 as Fluorine	----	0.01	µg/L	0.01	0.01	0.0	No Limit
EB2332950-002	Anonymous	EP231X: Sum of PFAS	----	0.01	µg/L	2.47	2.57	4.0	0% - 20%
		EP231X: Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.01	µg/L	2.47	2.57	4.0	0% - 20%
		EP231X: Sum of TOP C4 - C14 as Fluorine	----	0.01	µg/L	1.65	1.72	4.0	0% - 20%



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**

Sub-Matrix: SOIL				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%) Low High	
Method: Compound	CAS Number	LOR	Unit	Result				
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel) (QCLot: 5375275)								
EN60a-P: Extraction Fluid pH	----	0.1	pH Unit	7.0	----	----	----	----
EN60a-P: Final pH	----	0.1	pH Unit	7.0	----	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5376882)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.0011 mg/kg	92.7	72.0	128
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00117 mg/kg	88.0	73.0	123
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.00118 mg/kg	88.1	67.0	130
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00119 mg/kg	92.8	70.0	132
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00116 mg/kg	89.2	68.0	136
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.0012 mg/kg	90.8	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5376882)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	97.0	71.0	135
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	88.0	69.0	132
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	82.8	70.0	132
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	88.4	71.0	131
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	95.6	69.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	104	72.0	129
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	97.6	69.0	133
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	87.6	64.0	136
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	90.4	69.0	135
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	101	66.0	139
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	86.8	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5376882)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	95.2	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	104	59.6	143
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	86.5	62.8	140
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	94.4	61.5	139
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	89.7	61.9	137
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	85.6	63.0	144



Sub-Matrix: SOIL				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%) Low High	
Method: Compound	CAS Number	LOR	Unit	Result				
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5376882) - continued								
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	94.4	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5376882)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00117 mg/kg	85.9	62.0	145
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00118 mg/kg	105	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	0.0012 mg/kg	93.8	65.0	137
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.0012 mg/kg	81.2	54.8	124
Sub-Matrix: WATER				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%) Low High	
Method: Compound	CAS Number	LOR	Unit	Result				
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids (QCLot: 5382998)								
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	----	----	----	----
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	----	----	----	----
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.949 µg/L	86.5	43.4	126
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	----	----	----	----
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.929 µg/L	87.6	33.4	118
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	----	----	----	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids (QCLot: 5382998)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	----	----	----	----
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	----	----	----	----
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	----	----	----	----
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	----	----	----	----
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	1 µg/L	98.2	47.7	124
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	----	----	----	----
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	----	----	----	----
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	----	----	----	----
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	----	----	----	----
EP231X: Perfluorotridecanoic acid (PFTriDA)	72629-94-8	0.02	µg/L	<0.02	----	----	----	----
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	----	----	----	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides (QCLot: 5382998)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	----	----	----	----
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	----	----	----	----
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	----	----	----	----
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	----	----	----	----



Sub-Matrix: **WATER**

Sub-Matrix: WATER				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result		LCS	Low	High
EP231_TOP_C: Perfluoroalkyl Sulfonamides (QCLot: 5382998) - continued								
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	----	----	----	----
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	----	----	----	----
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	----	----	----	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5382998)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	----	----	----	----
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.095 µg/L	-1.0	0	200
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	----	----	----	----
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	----	----	----	----
EP231_TOP_P: PFAS Sums (QCLot: 5382998)								
EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.01	µg/L	<0.01	----	----	----	----
EP231X: Sum of TOP C4 - C14 as Fluorine	----	0.01	µg/L	<0.01	----	----	----	----

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**

Sub-Matrix: SOIL				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 5376882)							
EB2332809-001	QC02	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0011 mg/kg	85.9	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00117 mg/kg	84.2	73.0	123
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00118 mg/kg	83.4	67.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00119 mg/kg	86.6	70.0	132
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00116 mg/kg	70.0	68.0	136
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0012 mg/kg	87.1	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5376882)							
EB2332809-001	QC02	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	# Not Determined	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	# Not Determined	69.0	132



Sub-Matrix: **SOIL**

Sub-Matrix: SOIL				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 5376882) - continued							
EB2332809-001	QC02	EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	# Not Determined	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	# Not Determined	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	75.3	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	87.2	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	92.8	69.0	133
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	86.4	64.0	136
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	80.0	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.00125 mg/kg	92.0	66.0	139
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	80.0	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 5376882)							
EB2332809-001	QC02	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	102	48.0	128
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.00312 mg/kg	98.1	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.00312 mg/kg	89.3	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	93.1	70.0	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	94.6	70.0	130
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	72.4	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	73.2	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 5376882)							
EB2332809-001	QC02	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00117 mg/kg	71.7	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00118 mg/kg	# Not Determined	64.0	140
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0012 mg/kg	91.2	70.0	130



QA/QC Compliance Assessment to assist with Quality Review

Work Order	: EB2332809	Page	: 1 of 6
Client	: ADE Consulting Group Pty Ltd	Laboratory	: Environmental Division Brisbane
Contact	: MR MATTHEW TOOLE	Telephone	: +61-7-3243 7222
Project	: A103021.1540.00	Date Samples Received	: 20-Oct-2023
Site	: ----	Issue Date	: 30-Oct-2023
Sampler	: MATTHEW TOOLE	No. of samples received	: 3
Order number	: ----	No. of samples analysed	: 3

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** Laboratory Control outliers occur.
- Duplicate outliers exist - please see following pages for full details.
- Matrix Spike outliers exist - please see following pages for full details.
- 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

- **NO** Quality Control Sample Frequency Outliers exist.

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Duplicate (DUP) RPDs							
EP231A: Perfluoroalkyl Sulfonic Acids	EB2332597--001	Anonymous	Perfluorooctane sulfonic acid (PFOS)	1763-23-1	21.4 %	0% - 20%	RPD exceeds LOR based limits
EP231B: Perfluoroalkyl Carboxylic Acids	EB2332597--001	Anonymous	Perfluoropentanoic acid (PFPeA)	2706-90-3	33.8 %	0% - 20%	RPD exceeds LOR based limits
Matrix Spike (MS) Recoveries							
EP231B: Perfluoroalkyl Carboxylic Acids	EB2332809--001	QC02	Perfluoropentanoic acid (PFPeA)	2706-90-3	Not Determined	----	MS recovery not determined, background level greater than or equal to 4x spike level.
EP231B: Perfluoroalkyl Carboxylic Acids	EB2332809--001	QC02	Perfluorohexanoic acid (PFHxA)	307-24-4	Not Determined	----	MS recovery not determined, background level greater than or equal to 4x spike level.
EP231B: Perfluoroalkyl Carboxylic Acids	EB2332809--001	QC02	Perfluoroheptanoic acid (PFHpA)	375-85-9	Not Determined	----	MS recovery not determined, background level greater than or equal to 4x spike level.
EP231D: (n:2) Fluorotelomer Sulfonic Acids	EB2332809--001	QC02	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	Not Determined	----	MS recovery not determined, background level greater than or equal to 4x spike level.

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.

Evaluation: ✖ = Holding time breach ; ✔ = Within holding time.

Method	Sample Date	Extraction / Preparation			Analysis			
Container / Client Sample ID(s)		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EA055: Moisture Content (Dried @ 105-110°C)								
HDPE Soil Jar (EA055) QC02, QC06	QC04, QC06	17-Oct-2023	----	----	----	23-Oct-2023	31-Oct-2023	✓
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)								
Non-Volatile Leach: 180 day HT (e.g. PFAS, metals ex.Hg) (EN60a-P) QC02, QC06	QC04, QC06	17-Oct-2023	21-Oct-2023	14-Apr-2024	✓	----	----	----



Matrix: **SOIL**

Evaluation: ✖ = Holding time breach ; ✔ = Within holding time.

Method		Sample Date	Extraction / Preparation			Analysis		
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231A: Perfluoroalkyl Sulfonic Acids								
HDPE Soil Jar (EP231X) QC02, QC06	QC04,	17-Oct-2023	25-Oct-2023	14-Apr-2024	✓	26-Oct-2023	04-Dec-2023	✓
EP231B: Perfluoroalkyl Carboxylic Acids								
HDPE Soil Jar (EP231X) QC02, QC06	QC04,	17-Oct-2023	25-Oct-2023	14-Apr-2024	✓	26-Oct-2023	04-Dec-2023	✓
EP231C: Perfluoroalkyl Sulfonamides								
HDPE Soil Jar (EP231X) QC02, QC06	QC04,	17-Oct-2023	25-Oct-2023	14-Apr-2024	✓	26-Oct-2023	04-Dec-2023	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
HDPE Soil Jar (EP231X) QC02, QC06	QC04,	17-Oct-2023	25-Oct-2023	14-Apr-2024	✓	26-Oct-2023	04-Dec-2023	✓
EP231P: PFAS Sums								
HDPE Soil Jar (EP231X) QC02, QC06	QC04,	17-Oct-2023	25-Oct-2023	14-Apr-2024	✓	26-Oct-2023	04-Dec-2023	✓

Matrix: **WATER**

Evaluation: ✖ = Holding time breach ; ✔ = Within holding time.

Method		Sample Date	Extraction / Preparation			Analysis		
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids								
HDPE (no PTFE) (EP231X (TOP)) QC02, QC06	QC04,	21-Oct-2023	25-Oct-2023	18-Apr-2024	✓	26-Oct-2023	18-Apr-2024	✓
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids								
HDPE (no PTFE) (EP231X (TOP)) QC02, QC06	QC04,	21-Oct-2023	25-Oct-2023	18-Apr-2024	✓	26-Oct-2023	18-Apr-2024	✓
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
HDPE (no PTFE) (EP231X (TOP)) QC02, QC06	QC04,	21-Oct-2023	25-Oct-2023	18-Apr-2024	✓	26-Oct-2023	18-Apr-2024	✓
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
HDPE (no PTFE) (EP231X (TOP)) QC02, QC06	QC04,	21-Oct-2023	25-Oct-2023	18-Apr-2024	✓	26-Oct-2023	18-Apr-2024	✓

Evaluation: ✖ = Holding time breach ; ✔ = Within holding time.

Method		Sample Date	Extraction / Preparation			Analysis		
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231_TOP_P: PFAS Sums								
HDPE (no PTFE) (EP231X (TOP))		21-Oct-2023	25-Oct-2023	18-Apr-2024	✓	26-Oct-2023	18-Apr-2024	✓
QC02,								
QC06								



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	4	25.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	6	16.67	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	6	16.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
ASLP for Non & Semivolatile Analytes - Plastic Leaching Vessel	EN60a-P	1	6	16.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	6	16.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	6	16.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER**

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)							
PFAS by LCMSMS after oxidation (TOP)	EP231X (TOP)	2	12	16.67	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
PFAS by LCMSMS after oxidation (TOP)	EP231X (TOP)	1	12	8.33	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
PFAS by LCMSMS after oxidation (TOP)	EP231X (TOP)	1	12	8.33	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).
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.
PFAS by LCMSMS after oxidation (TOP)	EP231X (TOP)	SOIL	In house, following oxidation per Houtz,Erika F.; Sedlak,David L. (2012): Oxidative Conversion as a Means of Detecting Precursors to Perfluoroalkyl Acids in Urban Runoff. In Environmental Science & Technology 46 (17),pp. 9342-9349.: A portion of the oxidised sample is mixed with methanol (1:1) prior to analysis by LC-Electrospray-MS-MS,Negative Mode using MRM. Where commercially available, isotopically labelled analogues of the target analytes are used as internal standards for quantification. Where a labelled analogue is not commercially available, the internal standard with similar chemistry and the closest retention time to the target is used for quantification. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers.
Preparation Methods	Method	Matrix	Method Descriptions
ASLP for Non & Semivolatile Analytes - Plastic Leaching Vessel	EN60a-P	SOIL	In house QWI-EN/60 referenced to AS4439.3 Preparation of Leachates.
Total Oxidisable Precursor Digest for PFAS	* ORG70-W	SOIL	In-House with oxidation per Houtz, Erika F.; Sedlak, David L. (2012): Oxidative Conversion as a Means of Detecting Precursors to Perfluoroalkyl Acids in Urban Runoff. In Environmental Science & Technology 46 (17), pp. 9342-9349: A 5 mL sample is digested with persulfate under alkaline conditions, neutralised and prepared for analysis per EP231.
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.

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Sample Receipt Advice

Company name:	ADE Consulting Group QLD
Contact name:	Matthew Toole
Project name:	A103021.1540.00
Project ID:	A103021.1540.00
Turnaround time:	1 Day
Date/Time received	Sep 19, 2023 8:46 AM
Eurofins reference	1026894

Sample Information

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

Notes

ATTN: Lab received additional Trip Blank samples, these will undergo testing.

Contact

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

Zoe Flynn on phone : or by email: ZoeFlynn@eurofins.com

Results will be delivered electronically via email to Matthew Toole - matthew.toole@ade.group.

Note: A copy of these results will also be delivered to the general ADE Consulting Group QLD email address.

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Sample Receipt Advice

Company name:	ADE Consulting Group QLD
Contact name:	Matthew Toole
Project name:	A103021.1540.00
Project ID:	A103021.1540.00
Turnaround time:	3 Day
Date/Time received	Sep 21, 2023 2:33 PM
Eurofins reference	1028097

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- ✓ Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
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- ✗ Some samples have been subcontracted.
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Notes

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Sample Receipt Advice

Company name:	ADE Consulting Group QLD
Contact name:	Matthew Toole
Project name:	A103021.1540.00
Project ID:	A103021.1540.00
Turnaround time:	3 Day
Date/Time received	Sep 28, 2023 3:40 PM
Eurofins reference	1030176

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- ✓ Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
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Sample Receipt Advice

Company name:	ADE Consulting Group QLD
Contact name:	Matthew Toole
Project name:	A103021.1540.00
Project ID:	A103021.1540.00
Turnaround time:	2 Day
Date/Time received	Oct 19, 2023 3:20 PM
Eurofins reference	1036504

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- ✓ Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
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Notes

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Note: A copy of these results will also be delivered to the general ADE Consulting Group QLD email address.



SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **EB2332809**

Client : **ADE Consulting Group Pty Ltd**
Contact : **MR MATTHEW TOOLE**
Address :

Laboratory : Environmental Division Brisbane
Contact : Customer Services EB
Address : 2 Byth Street Stafford QLD Australia
4053

E-mail : **matthew.toole@ade.group**
Telephone : ----
Facsimile : ----

E-mail : **ALSEnviro.Brisbane@alsglobal.com**
Telephone : **+61-7-3243 7222**
Facsimile : **+61-7-3243 7218**

Project : **A103021.1540.00**
Order number : ----
C-O-C number : ----
Site : ----
Sampler : **MATTHEW TOOLE**

Page : 1 of 3
Quote number : **EP2023ADENVT0001 (EN/111)**
QC Level : **NEPM 2013 B3 & ALS QC Standard**

Dates

Date Samples Received : 20-Oct-2023 15:58
Client Requested Due : 26-Oct-2023
Date

Issue Date : 20-Oct-2023
Scheduled Reporting Date : **26-Oct-2023**

Delivery Details

Mode of Delivery : Carrier
No. of coolers/boxes : 1
Receipt Detail : SMALL ESKY

Security Seal : Intact.
Temperature : 2.4°C - Ice Bricks present
No. of samples received / analysed : 3 / 3

General Comments

- This report contains the following information:
 - Sample Container(s)/Preservation Non-Compliances
 - Summary of Sample(s) and Requested Analysis
 - Proactive Holding Time Report
 - Requested Deliverables
- **The laboratory acknowledges your requested TAT of 2 days, however due to the analytical request and associated procedures involved the requested due date will not be possible. Please note the best practical due date has been assigned.**
- Discounted Package Prices apply only when specific ALS Group Codes ('W', 'S', 'NT' suites) are referenced on COCs.
- Please direct any turn around / technical queries to the laboratory contact designated above.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Analysis will be conducted by ALS Environmental, Brisbane, NATA accreditation no. 825, Site No. 818 (Micro site no. 18958).
- **Breaches in recommended extraction / analysis holding times (if any) are displayed overleaf in the Proactive Holding Time Report table.**
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**



Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- No sample container / preservation non-compliance exists.

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.

If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: **SOIL**

Laboratory sample ID	Sampling date / time	Sample ID	SOIL - EA055-103 Moisture Content	SOIL - EN60a-P ASLP Leachate Procedure - Plastic Leaching	SOIL - EP231X (solids) PFAS - Full Suite (28 analytes)	SOIL - EP231X (TOP) PFAS - Total Oxidisable Precursor (TOP) Assay
EB2332809-001	17-Oct-2023 00:00	QC02	✓	✓	✓	✓
EB2332809-002	17-Oct-2023 00:00	QC04	✓	✓	✓	✓
EB2332809-003	17-Oct-2023 00:00	QC06	✓	✓	✓	✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

ACCOUNTS ADE

Email accounts@ade.group

Email cagatay.tufan@ade.group

- [illegible]

Email info@ade.group

- | | |
|-------|----------------|
| Email | info@ade.group |
| Email | info@ade.group |
| Email | info@ade.group |
| Email | info@ade.group |
| Email | info@ade.group |

Email info@adenviro.com.au

- | | |
|-------|----------------------|
| Email | info@adenviro.com.au |
| Email | info@adenviro.com.au |
| Email | info@adenviro.com.au |
| Email | info@adenviro.com.au |
| Email | info@adenviro.com.au |

Email matthew.toole@ade.group

- [illegible]

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

Perth
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	Tauranga
35 O'Rourke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

Sample Receipt Advice

Company name:	ADE Consulting Group QLD
Contact name:	Matthew Toole
Project name:	A103021.1540.00
Project ID:	A103021.1540.00
Turnaround time:	10 Day
Date/Time received	Oct 19, 2023 3:20 PM
Eurofins reference	1036505

Sample Information

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

Notes

ATTN: Fastest TAT has been applied.

Contact

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

Zoe Flynn on phone : or by email: ZoeFlynn@eurofins.com

Results will be delivered electronically via email to Matthew Toole - matthew.toole@ade.group.

Note: A copy of these results will also be delivered to the general ADE Consulting Group QLD email address.

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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

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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	Tauranga
35 O'Rourke Road Penrose, Auckland 1061 Tel: +64 9 526 4551 IANZ# 1327	43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 5201 IANZ# 1290	1277 Cameron Road, Gate Pa, Tauranga 3112 Tel: +64 9 525 0568 IANZ# 1402

Sample Receipt Advice

Company name:	ADE Consulting Group QLD
Contact name:	Matthew Toole
Project name:	A103021.1540.00
Project ID:	A103021.1540.00
Turnaround time:	10 Day
Date/Time received	Oct 19, 2023 4:30 PM
Eurofins reference	1036893

Sample Information

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

Notes

ATTN: Fastest TAT applied.

Contact

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

Zoe Flynn on phone : or by email: ZoeFlynn@eurofins.com

Results will be delivered electronically via email to Matthew Toole - matthew.toole@ade.group.

Note: A copy of these results will also be delivered to the general ADE Consulting Group QLD email address.



SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **EB2332950**

Client	: ADE Consulting Group Pty Ltd	Laboratory	: Environmental Division Brisbane
Contact	: MR MATTHEW TOOLE	Contact	: Customer Services EB
Address	: 10/53 METROPLEX AVENUE MURARRIE 4172	Address	: 2 Byth Street Stafford QLD Australia 4053
E-mail	: matthew.toole@ade.group	E-mail	: ALSEnviro.Brisbane@alsglobal.com
Telephone	: +61 02 94007711	Telephone	: +61-7-3243 7222
Facsimile	: +61 02 94010097	Facsimile	: +61-7-3243 7218
Project	: A103021.1540.00	Page	: 1 of 3
Order number	: ----	Quote number	: EP2023ADENVT0001 (EN/111)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: ----		
Sampler	:		

Dates

Date Samples Received	: 23-Oct-2023 15:42	Issue Date	: 24-Oct-2023
Client Requested Due Date	: 26-Oct-2023	Scheduled Reporting Date	: 26-Oct-2023

Delivery Details

Mode of Delivery	: Carrier	Security Seal	: Intact.
No. of coolers/boxes	: 1	Temperature	: 15.0°C - Ice Bricks present
Receipt Detail	: MEDIUM ESKY	No. of samples received / analysed	: 3 / 3

General Comments

- This report contains the following information:
 - Sample Container(s)/Preservation Non-Compliances
 - Summary of Sample(s) and Requested Analysis
 - Proactive Holding Time Report
 - Requested Deliverables
- **A 15% surcharge applies for results returned within 3 days.**
- ***24/10*: SRN has been resent to acknowledge the correct leaching method being applied for these samples. For any further information regarding these adjustments please contact client services at ALSEnviro.Brisbane@alsglobal.com.**
- **The laboratory acknowledges your requested reporting date of <25/10>, however due to the analytical request and associated procedures involved the requested due date will not be possible. Please note the best practical due date has been assigned.**
- Discounted Package Prices apply only when specific ALS Group Codes ('W', 'S', 'NT' suites) are referenced on COCs.
- Please direct any turn around / technical queries to the laboratory contact designated above.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Analysis will be conducted by ALS Environmental, Brisbane, NATA accreditation no. 825, Site No. 818 (Micro site no. 18958).
- **Breaches in recommended extraction / analysis holding times (if any) are displayed overleaf in the Proactive Holding Time Report table.**
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**



Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- No sample container / preservation non-compliance exists.

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.

If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: SOIL

Laboratory sample ID	Sampling date / time	Sample ID	SOIL - EN60a-P ASLP Leachate Procedure - Plastic Leaching	SOIL - EN60-D1a-P Deionised Water Leach - Plastic Leaching Vessel	SOIL - EP231X (TOP) PFAS - Total Oxidisable Precursor (TOP) Assay
EB2332950-001	19-Oct-2023 00:00	QC20	✓	✓	✓
EB2332950-002	19-Oct-2023 00:00	QC22	✓	✓	✓
EB2332950-003	19-Oct-2023 00:00	QC24	✓	✓	✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

1028097

From: Matthew Toole <matthew.toole@ade.group>

Sent: Thursday, 21 September 2023 2:33 PM

To: Paige Howarth <PaigeHowarth@eurofins.com>

Cc: Cagatay Tufan <Cagatay.tufan@ade.group>; Zoe Flynn <ZoeFlynn@eurofins.com>

Subject: RE: Eurofins Test Results, Invoice - Report 1026894 : Site A103021.1540.00 (A103021.1540.00)

CAUTION: EXTERNAL EMAIL -
Sent from an email domain that is
not formally trusted by Eurofins.

Do not click on links or open
attachments unless you recognise
the sender and are certain that the
content is safe.

Hi Paige,

Thanks for these results. Can we please order TOPA analysis on the following samples:

- W001
- W002
- W003

24 hour TAT please!

Thanks in advance,

Kind regards,

Matthew Toole

Associate Environmental Consultant

ADECONSULTINGGROUP
SOLUTIONS THROUGH INNOVATION



6/7 Millennium Court,

Silverwater NSW, 2128

Phone: 1300 796 922

Mobile: 0410 389 018

E-mail: matthew.toole@ade.group

Website: ade.group

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 Please consider the environment before printing this email.

CHAIN OF CUSTODY RECORD

ADN 90 000 000 000

Sydney Laboratory
Unit 7 B27, 16 Mary St, Lane Cove NSW 2086
02 9002 5000 E: Environmental@sydneylab.com

Brisbane Laboratory
Unit 1, 21 Oakwood St, Murrumbidgee QLD 4172
07 3822 4800 E: Environmental@brisbanelab.com

Melbourne Laboratory
2 Regent, 100 Chas, Geelong VIC 3206
03 8204 5000 E: Environmental@melbournelab.com

Company		ADE Consulting Group		Project No.		Project Name		Project Manager		Matthew Toole		Relinquished By		Matthew Toole	
Address		Unit 10, 53 Macropus Ave, Murrumbidgee, QLD 4172		A103021, 1540.00		A103021, 1540.00		Report Format:		ESQAT and Excel		mattthew.toole@ade-group.com		mattthew.toole@ade-group.com	
Contact Name		Matthew Toole		PFAS Full Suite		PFAS TOPA		ASLP (pH 7) followed by PFAS TOPA		B1: TRH & BTEXN		1L Plastic		250mL Plastic	
Phone No.		0410 385 818		Analysis: (Note: Where metals are requested, please specify "Total" or "Filtered")								105mL Plastic		200mL Amber Glass	
Special Direction				Matrix								40mL vial		125mL Amber Glass	
Purchase Order				Client Sample ID		Date						Jir		PFAS container	
Quote ID No.															
1	BT-1-0-1	28/09/23	Soil	X	X	X	X								
2	BT-1-0-2	28/09/23	Soil	X	X	X	X								
3	BT-1-0-3	28/09/23	Soil	X	X	X	X								
4	BT-1-1-1	28/09/23	Soil												
5	BT-1-1-2	28/09/23	Soil												
6	BT-1-1-3	28/09/23	Soil												
7	BT-1-3-1	28/09/23	Soil												
8	BT-1-3-2	28/09/23	Soil												
9	BT-1-3-3	28/09/23	Soil												
10	BT-1-5-1	28/09/23	Soil												
11	BT-1-5-2	28/09/23	Soil												
12	BT-1-5-3	28/09/23	Soil												
13	BT-1	28/09/23	Soil												
14	BT-2-0-1	28/09/23	Soil	X	X	X	X								
15	BT-2-0-2	28/09/23	Soil	X	X	X	X								
16	BT-2-0-3	28/09/23	Soil	X	X	X	X								
17	BT-2-1-1	28/09/23	Soil												
18	BT-2-1-2	28/09/23	Soil												
19	BT-2-1-3	28/09/23	Soil												
20	BT-2-3-1	28/09/23	Soil												
21	BT-2-3-2	28/09/23	Soil												
22	BT-2-3-3	28/09/23	Soil												
23	BT-2-5-1	28/09/23	Soil												
24	BT-2-5-2	28/09/23	Soil												
25	BT-2-5-3	28/09/23	Soil												
26	BT-2	28/09/23	Soil												
27	BT-3-0-1	28/09/23	Soil	X	X	X	X								
28	BT-3-0-2	28/09/23	Soil	X	X	X	X								
29	BT-3-0-3	28/09/23	Soil	X	X	X	X								
30	BT-3-1-1	28/09/23	Soil												
31	BT-3-1-2	28/09/23	Soil												

28/9/23
3:40pm
@ 0.1c
co

1030176

CHAIN OF CUSTODY RECORD

ADN 10 001 361 071

Sydney Laboratory
Unit 13/13B/7, 18 Mary Rd, Law Cove West, NSW 2096
(02) 9662 6068 Fax: (02) 9662 6069 Email: enquiries@sydneylab.com

Brisbane Laboratory
Unit 1, 17 Indubert Pl, Murrumbidgee, QLD 4172
(07) 3962 4000 Fax: (07) 3962 4001 Email: enquiries@brisbanelab.com

Melbourne Laboratory
2 Ferguson St, Oak Creek, Victoria, VIC 3106
(03) 9564 5000 Fax: (03) 9564 5001 Email: enquiries@melbournelab.com

Company		ADE Consulting Group		Project No.		A103021,1540.00		Project Manager		Matthew Toole		Relinquished By		Matthew Toole	
Address		Unit 10, 53 Macgregor Ave, Murrumbidgee, QLD, 4172		Project Name				Report Format				Email for Results		matt@ade-consulting.com.au	
Contact Name		Matthew Toole		Analysis: (Note: Where metals are requested, please specify "Total" or "Filtered")								Containers		Turn Around Requirements	
Phone No.		0419 385 618		PFAS Full Suite								1L Plastic		☐ Overnight (9 am)	
Special Direction				PFAS TOPA								250ml Plastic		☐ 1 Day ☐ 2 Day	
Purchase Order				ASLP (pH 7) followed by PFAS TOPA								125ml Plastic		☐ 3 Day ☐ 5 Day	
Door ID No.				B1: TRH & BTEXN								200ml Amber Glass		☐ Other	
Client Sample ID												40ml vial			
No.		BT-3-1-3		280923		Sd						125ml Amber Glass			
		BT-3-3-1		280923		Sd						Jar			
		BT-3-3-2		280923		Sd						PFAS container		☐ Extract using ASLP pH7, then conduct TOPA on machine	
		BT-3-3-3		280923		Sd								☐ Extract using ASLP pH7, then conduct TOPA on machine	
		BT-3-5-1		280923		Sd								☐ Extract using ASLP pH7, then conduct TOPA on machine	

THE FIRST AND SECOND

Sydney Laboratory
Unit F3 Bldg F, 16 Mary Rd, Lane Cove West, NSW 2060
02 9600 8400 Email: enquiries@sydneylab.com

Brisbane Laboratory
Unit 1, 71 Southwood Pl, Wynnum, QLD 4172
07 3802 4000 Enquiries@QLDignus.com.au

Malbourne Laboratory
2 Kingston Town Drive, Ocala, FL 316
351 8554 5000 Email:info@malbourne.com

Company		AEC Consulting Group		Project No.		A100201,1540.00		Project Manager		Matthew Toole									
Address		Unit 19, S3 Macropia Ave, Marrietta, QLD, 4172		Project Name		A100201,1540.00 <th colspan="2">ESQAT and Excel</th> <td colspan="2">Matthew Toole</td>		ESQAT and Excel		Matthew Toole									
Contact Name		Matthew Toole		Report Format				ESQAT and Excel		Matthew Toole									
Phone No.		0410 289 918		Report Format				ESQAT and Excel		Matthew Toole									
Special Direction				Report Format				ESQAT and Excel		Matthew Toole									
Purchase Order				Report Format				ESQAT and Excel		Matthew Toole									
Quote ID No.				Report Format				ESQAT and Excel		Matthew Toole									
No.		Client Sample ID		Date		Matrix		Analysis : (Note: Where metals are requested, please specify "Total" or "Filtered")		Sample Comments									
37		BT-5-5-2	28/09/23	Soil							Extract using ASLP pH7, then conduct TO99 on leachate								
38		BT-5-5-3	28/09/23	Soil							Extract using ASLP pH7, then conduct TO99 on leachate								
39		BT-3	28/09/23	Soil			X				Extract using ASLP pH7, then conduct TO99 on leachate								
40		BT-4-0-1	28/09/23	Soil	X	X				X	Extract using ASLP pH7, then conduct TO99 on leachate								
41		BT-4-0-2	28/09/23	Soil	X	X				X	Extract using ASLP pH7, then conduct TO99 on leachate								
42		BT-4-0-3	28/09/23	Soil	X	X				X	Extract using ASLP pH7, then conduct TO99 on leachate								
43		BT-4-1-1	28/09/23	Soil			X			X	Extract using ASLP pH7, then conduct TO99 on leachate								
44		BT-4-1-2	28/09/23	Soil			X			X	Extract using ASLP pH7, then conduct TO99 on leachate								
45		BT-4-1-3	28/09/23	Soil			X			X	Extract using ASLP pH7, then conduct TO99 on leachate								
46		BT-4-3-1	28/09/23	Soil			X			X	Extract using ASLP pH7, then conduct TO99 on leachate								
47		BT-4-3-2	28/09/23	Soil			X			X	Extract using ASLP pH7, then conduct TO99 on leachate								
48		BT-4-3-3	28/09/23	Soil			X			X	Extract using ASLP pH7, then conduct TO99 on leachate								
49		BT-4-5-1	28/09/23	Soil			X			X	Extract using ASLP pH7, then conduct TO99 on leachate								
50		BT-4-5-2	28/09/23	Soil			X			X	Extract using ASLP pH7, then conduct TO99 on leachate								
51		BT-4-5-3	28/09/23	Soil			X			X	Extract using ASLP pH7, then conduct TO99 on leachate								
52		BT-4	28/09/23	Soil			X			X	Extract using ASLP pH7, then conduct TO99 on leachate								
53																			
Total Counts				12	12	48	0	4	0	0	0	0	0	0	0	0	4	48	
Method of Shipment		Container		Head Delivered		Pestil		Name		Signature		Date		Time		Temperature		Report No.	
Laboratory Use Only		Received By		Received By		STD BNE MEL PER AQL NEW OAR		STD BNE MEL PER AQL NEW OAR		Signature		Date		Time		Temperature		Report No.	

CHAIN OF CUSTODY RECORD

ANALYST: 000 000 000

Sydney Laboratory
Unit 71 Bldg F, 16 Mary Rd, Lane Cove NSW 1505
(02) 9000 8000 Environmental@sydney.com.au

Brisbane Laboratory
Unit 1, 27 Sandford Pl, Maroon, QLD 4172
(07) 2002 6600 Environmental@brisbane.com.au

Melbourne Laboratory
2 Koonan, Town Creek, Cheltenham, VIC 3198
(03) 8584 5500 Environmental@melbourne.com.au

1036504

Company		AEC Consulting Group		Project No.		A103021, 1540, 00		Project Manager		Matthew Toole		Relinquished By		Matthew Toole	
Address		Unit 10, 53 Metroplex Ave, Murrumbidgee, QLD, 4172		Project Name		A103021, 1540, 00		Report Format		ESQAT and Excel		Email for Results		matthew.toole@aecgroup.com c3a3ct@aecgroup.com	
Contact Name		Matthew Toole		Phone No.		0410 389 018		Special Direction				Containers		Turn Around Requirements	
Purchase Order				Order ID No.								1L Plastic - ASS Bag		PFAS container	
Client Sample ID		Date		Matrix		Analysis (Note: Where results are requested, please specify "Total" or "Filterable")		PFAS Full Suite (0.1 µg/kg)		PFAS TOPA		ASLP (pH 7) - followed by TOPA		Total Organic Fluorine	
								pH and CEC, alkalinity		Organic Carbon		Ammonium, TRH		Particle Size	
								pH for		Non-Target PFAS (QTOF)		On Hold			
1	B1-1	16/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
2	B1-2	16/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
3	B1-3	16/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
4	B1-4	16/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
5	B1-5	16/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
6	B2-1	16/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
7	B2-2	16/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
8	B2-3	16/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
9	B2-4	16/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
10	B2-5	16/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
11	B3-1	16/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
12	B3-2	16/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
13	B3-3	16/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
14	B3-4	16/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
15	B3-5	16/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
16	B1-6	17/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
17	QC01	17/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
18	QC02	17/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
19	B2-6	17/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
20	QC03	17/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
21	QC04	17/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
22	B3-6	17/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
23	QC05	17/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
24	B1-1	17/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
25	B1-2	17/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
26	B1-3	17/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
27	B1-4	17/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
28	B1-5	17/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
29	QC07	17/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
30	QC08	17/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X

Date/Time: 19/10/23 2:20pm
 Chilled: Yes/No
 Temp: 20.7
 Correction: 0.1
 Final Temp: 20.6



12345678910111213141516171819202122232425262728293031323334353637383940414243444546474849505152535455565758596061626364656667686970717273747576777879808182838485868788899091929394959697989910010110210310410510610710810911011111211311411511611711811912012112212312412512612712812913013113213313413513613713813914014114214314414514614714814915015115215315415515615715815916016116216316416516616716816917017117217317417517617717817918018118218318418518618718818919019119219319419519619719819920020120220320420520620720820921021121221321421521621721821922022122222322422522622722822923023123223323423523623723823924024124224324424524624724824925025125225325425525625725825926026126226326426526626726826927027127227327427527627727827928028128228328428528628728828929029129229329429529629729829930030130230330430530630730830931031131231331431531631731831932032132232332432532632732832933033133233333433533633733833934034134234334434534634734834935035135235335435535635735835936036136236336436536636736836937037137237337437537637737837938038138238338438538638738838939039139239339439539639739839940040140240340440540640740840941041141241341441541641741841942042142242342442542642742842943043143243343443543643743843944044144244344444544644744844945045145245345445545645745845946046146246346446546646746846947047147247347447547647747847948048148248348448548648748848949049149249349449549649749849950050150250350450550650750850951051151251351451551651751851952052152252352452552652752852953053153253353453553653753853954054154254354454554654754854955055155255355455555655755855956056156256356456556656756856957057157257357457557657757857958058158258358458558658758858959059159259359459559659759859960060160260360460560660760860961061161261361461561661761861962062162262362462562662762862963063163263363463563663763863964064164264364464564664764864965065165265365465565665765865966066166266366466566666766866967067167267367467567667767867968068168268368468568668768868969069169269369469569669769869970070170270370470570670770870971071171271371471571671771871972072172272372472572672772872973073173273373473573673773873974074174274374474574674774874975075175275375475575675775875976076176276376476576676776876977077177277377477577677777877978078178278378478578678778878979079179279379479579679779879980080180280380480580680780880981081181281381481581681781881982082182282382482582682782882983083183283383483583683783883984084184284384484584684784884985085185285385485585685785885986086186286386486586686786886987087187287387487587687787887988088188288388488588688788888989089189289389489589689789889990090190290390490590690790890991091191291391491591691791891992092192292392492592692792892993093193293393493593693793893994094194294394494594694794894995095195295395495595695795895996096196296396496596696796896997097197297397497597697797897998098198298398498598698798898999099199299399499599699799899910001001100210031004100510061007100810091010101110121013101410151016101710181019102010211022102310241025102610271028102910301031103210331034103510361037103810391040104110421043104410451046104710481049105010511052105310541055105610571058105910601061106210631064106510661067106810691070107110721073107410751076107710781079108010811082108310841085108610871088108910901091109210931094109510961097109810991100110111021103110411051106110711081109111011111112111311141115111611171118111911201121112211231124112511261127112811291130113111321133113411351136113711381139114011411142114311441145114611471148114911501151115211531154115511561157115811591160116111621163116411651166116711681169117011711172117311741175117611771178117911801181118211831184118511861187118811891190119111921193119411951196119711981199120012011202120312041205120612071208120912101211121212131214121512161217121812191220122112221223122412251226122712281229123012311232123312341235123612371238123912401241124212431244124512461247124812491250125112521253125412551256125712581259126012611262126312641265126612671268126912701271127212731274127512761277127812791280128112821283128412851286128712881289129012911292129312941295129612971298129913001

Sydney Laboratory
Level F3 Bldg F, 16 Mars Rd, Lane Cove NSW 1509, 2006
(61 2) 9550 6400 Email:sydney@sydney.com

Driskane Laboratory
(Unit 1, 21 Sandhurst Pl., Maruma, QLD 4172)
02 3862 6600 E-mail: Sandhurst@Driskane.com.au

MetSoma Laboratory
2 Kingston Town Drive, Ossonge, VIC 3102
03 9594 5000. Enquiries@met-soma.com

[illegible]

1036504

CHAIN OF CUSTODY RECORD

ABN 50 005 065 521

Sydney Laboratory

Unit F3 BldF, 16 Mars Rd, Lane Cove Yrsd, NSW 2066
02 9900 8400 EnviroSampleNSW@eurofins.com

Brisbane Laboratory

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

Melbourne Laboratory

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

Company		ADE Consulting Group		Project No.		A103021.1540.00		Project Manager		Matthew Toole		Relinquished By		Matthew Toole	
Address		Unit 10, 53 Metroplex Ave, Murrumbidgee, QLD, 4172		Project Name		A103021.1540.00		Report Format		ESDAT and Excel		Email for Results		matthew.toole@ade_group cagatay.tufan@ade_group	
Contact Name		Matthew Toole		Matrix		PPAS Full Suite (0.1 µg/kg)		pH and CEC, alkalinity		Ammonium, TRH		Containers		Turn Around Requirements	
Phone No.		0410 389 018		Matrix		ASLP (pH 7) - Indicated by TOA		pH and CEC, alkalinity		Ammonium, TRH		Containers		Turn Around Requirements	
Special Direction				Matrix		ASLP (pH 7) - Indicated by TOA		pH and CEC, alkalinity		Ammonium, TRH		Containers		Turn Around Requirements	
Purchase Order				Matrix		ASLP (pH 7) - Indicated by TOA		pH and CEC, alkalinity		Ammonium, TRH		Containers		Turn Around Requirements	
Quote ID No.				Matrix		ASLP (pH 7) - Indicated by TOA		pH and CEC, alkalinity		Ammonium, TRH		Containers		Turn Around Requirements	
No.	Client Sample ID	Date	Matrix	PPAS Full Suite (0.1 µg/kg)	ASLP (pH 7) - Indicated by TOA	pH and CEC, alkalinity	Ammonium, TRH	Containers	Turn Around Requirements	Sample Comments					
1	B1-1	16/10/23	Soil	X	X	X	X	X	X	X					
2	B1-2	16/10/23	Soil	X	X	X	X	X	X	X					
3	B1-3	16/10/23	Soil	X	X	X	X	X	X	X					
4	B1-4	16/10/23	Soil	X	X	X	X	X	X	X					
5	B1-5	16/10/23	Soil						X	X					
6	B2-1	16/10/23	Soil	X	X	X	X	X	X	X					
7	B2-2	16/10/23	Soil	X	X	X	X	X	X	X					
8	B2-3	16/10/23	Soil	X	X	X	X	X	X	X					
9	B2-4	16/10/23	Soil	X	X	X	X	X	X	X					
10	B2-5	16/10/23	Soil						X	X					
11	B3-1	16/10/23	Soil	X	X	X	X	X	X	X					
12	B3-2	16/10/23	Soil	X	X	X	X	X	X	X					
13	B3-3	16/10/23	Soil	X	X	X	X	X	X	X					
14	B3-4	16/10/23	Soil	X	X	X	X	X	X	X					
15	B3-5	16/10/23	Soil						X	X					
16	B1-6	17/10/23	Soil	X	X	X	X	X	X	X					
17	QC01	17/10/23	Soil	X	X					X					
18	QC02	17/10/23	Soil	X	X					X					
19	B2-6	17/10/23	Soil	X	X	X	X	X		X					
20	QC03	17/10/23	Soil	X	X					X					
21	QC04	17/10/23	Soil	X	X					X					
22	B3-6	17/10/23	Soil	X	X	X	X	X		X					
23	QC05	17/10/23	Soil	X	X					X					
24	B1-1	17/10/23	Soil			X	X	X	X	X					
25	B1-2	17/10/23	Soil			X	X	X	X	X					
26	B1-3	17/10/23	Soil			X	X	X	X	X					
27	B1-4	17/10/23	Soil						X	X					
28	B1-5	17/10/23	Soil						X	X					
29	QC06	17/10/23	Soil						X	X					
30	QC08	17/10/23	Soil						X	X					

EH
20.10.23
1558

URGENT

19/10/23 2:20pm
 Environmental Division
 Brisbane
 Work Order Reference
 EB2332809



Telephone : + 61-7-3243 7272

CHAIN OF CUSTODY RECORD

AMN 50103 010 521

Sydney Laboratory
Unit 71 Bld F, 16 Mary Rd, Lane Cove NSW 1505
(02) 9503 8800 Environmental@sydney.com.au

Brisbane Laboratory
Unit 1, 27 Sandland Pl, Murrumbidgee QLD 4172
(07) 2622 6600 Environmental@brisbane.com.au

Melbourne Laboratory
2 Koonan, Town Creek, Cheltenham VIC 3196
(03) 8584 5500 Environmental@melbourne.com.au

1036504

Company		Ade Consulting Group		Project No.		A103021 1540.00		Project Manager		Matthew Toole		Relinquished By		Matthew Toole	
Address		Unit 10, 53 Macquarie Ave, Murrumbidgee, QLD 4172		Project Name		A103021 1540.00		Report Format		ESQAT and Excel		Email for Results		matthew.toole@ade_group.com.au c3a3ct@ade_group.com	
Contact Name		Matthew Toole		Phone No.		0410 389 018		Special Direction				Containers		Turn Around Requirements	
Purchase Order				Order ID No.								1L Plastic - ASS Bag		PFAS container	
Client Sample ID		Date		Matrix		Analysis (Note: Where results are requested, please specify "Total" or "Filterable")		PFAS Full Suite (0.1 µg/kg)		PFAS TOPA		ASLP (pH 7) - followed by TOPA		Total Organic fluorine	
								pH and CEC, alkalinity		Organic Carbon		Ammonium, TRH		Particle Size	
								pH for		Non-Target PFAS (QTOF)		On Hold			
1	B1-1	16/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
2	B1-2	16/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
3	B1-3	16/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
4	B1-4	16/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
5	B1-5	16/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
6	B2-1	16/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
7	B2-2	16/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
8	B2-3	16/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
9	B2-4	16/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
10	B2-5	16/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
11	B3-1	16/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
12	B3-2	16/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
13	B3-3	16/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
14	B3-4	16/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
15	B3-5	16/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
16	B1-6	17/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
17	QC01	17/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
18	QC02	17/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
19	B2-6	17/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
20	QC03	17/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
21	QC04	17/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
22	B3-6	17/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
23	QC05	17/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
24	B1-1	17/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
25	B1-2	17/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
26	B1-3	17/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
27	B1-4	17/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
28	B1-5	17/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
29	QC07	17/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X
30	QC08	17/10/23	Soil	X	X	X	X	X	X	X	X	X	X	X	X

Date/Time: 19/10/23 2:20pm
 Chilled: Yes/No
 Temp: 20.7
 Correlation: 100%
 Final Temp: 20.7



CHAIN OF CUSTODY RECORD

Item No. 001-001-001

Byrdway Laboratory
Unit B3 Bldg. 16 West Hill Lane, West Hill, NY 10986
(845) 366-8400 Email@byrdwaylab.com

Brookline Laboratory
Unit 1, 21 Southview Pl., Milford, CT 06460
(860) 352-6600 Email@brookline.com

Matheson Laboratory
2 Kingsport Lane, Ocala, FL 34461
(352) 894-5000 Email@matheson.com

Company		ADE Consulting Group		Project No.		A103021, 1540.00		Project Manager		Matthew Toole		ESQAT and Excel	
Address		Unit 10, 53 Mateplex Ave, Murram, QLD, 4172		Project Name				Report Format					
Contact Name		Matthew Toole		Analysis: (Note: Where metals are requested, please specify "Total" or "Filtered")				Particle Size					
Phone No.		0410 388 018		PFAS Full Suite (0.1 µg/kg)				pH and CEC, alkalinity					
Special Direction				PFAS TOPA				Organic Carbon					
Purchase Order				ASLP (pH 7) - followed by TOPA				Ammonium, TRH					
Quote ID No.				Total Organic fluorine				pH for					
No.		Client Sample ID		Date		Matrix		Non-Target PFAS (QTOF)					
1		E2-1		17/10/23		Soil		On Hold					
2		E2-2		17/10/23		Soil							
3		E2-3		17/10/23		Soil							
4		E2-4		17/10/23		Soil							
5		E2-5		17/10/23		Soil							
12		OC09		17/10/23		Soil							
13		OC10		17/10/23		Soil							
1		E2-1		17/10/23		Soil							
2		E2-2		17/10/23		Soil							
3		E2-3		17/10/23		Soil							
4		E2-4		17/10/23		Soil							
5		E2-5		17/10/23		Soil							
12		OC11		17/10/23		Soil							
13		OC12		17/10/23		Soil							
12		OC13		17/10/23		Soil							
13		OC14		17/10/23		Soil							
12		OC15		17/10/23		Soil							
13		OC16		17/10/23		Soil							
12		OC17		17/10/23		Soil							
13		OC18		17/10/23		Soil							
32													
33													
Total Counts				21		15		21		15		9	
Method of Shipment		Carrier		Received By		Received By		Signature		Signature		Date	
Laboratory Use Only		Received By		Received By		Signature		Signature		Date		Time	

S-A
23/10 1542



CERTIFICATE OF ANALYSIS

Work Order : **EB2332809**
Client : **ADE Consulting Group Pty Ltd**
Contact : **MR MATTHEW TOOLE**
Address :
Telephone : ----
Project : **A103021.1540.00**
Order number : ----
C-O-C number : ----
Sampler : **MATTHEW TOOLE**
Site : ----
Quote number : **EN/111**
No. of samples received : **3**
No. of samples analysed : **3**

Page : 1 of 7
Laboratory : Environmental Division Brisbane
Contact : Customer Services EB
Address : 2 Byth Street Stafford QLD Australia 4053
Telephone : +61-7-3243 7222
Date Samples Received : 20-Oct-2023 15:58
Date Analysis Commenced : 21-Oct-2023
Issue Date : 30-Oct-2023 16:28



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
Kim McCabe	Senior Inorganic Chemist	Brisbane Soil Preparation, Stafford, QLD
Matt Frost	Assistant Laboratory Manager	Brisbane Organics, Stafford, QLD
Morgan Lennox	Senior Organic Chemist	Brisbane Organics, Stafford, QLD



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.

- EP231X - PFAS: The LOR for PFHxS and PFDS has been raised for samples 'QC02' (EB2332809-001) and 'QC06' (EB2332809-003) due to matrix interference.
- EP231X - PFAS: Sample 'QC02' (EB2332809-001) shows poor matrix spike recovery due to sample heterogeneity. Confirmed by visual inspection.
- EP231X - PFAS: Sample EB2332597-001 shows poor duplicate recovery due to heterogeneity. Confirmed by visual inspection.
- 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.
- EN60: Where leachable PFAS analysis is requested, centrifugation rather than pressure filtration is used as the default approach for removal of particulates, in line with AS 4439.3.



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				QC02	QC04	QC06	----	----
Sampling date / time				17-Oct-2023 00:00	17-Oct-2023 00:00	17-Oct-2023 00:00	----	----
Compound	CAS Number	LOR	Unit	EB2332809-001	EB2332809-002	EB2332809-003	-----	-----
				Result	Result	Result	----	----
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.03	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.03	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.04	0.26	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.02	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.07	0.26	1.80	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	----	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	11.3	1.3	0.2	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	30.1	3.29	0.32	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	15.6	1.78	0.55	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	5.46	1.93	0.13	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	1.86	0.87	0.12	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	0.29	0.14	<0.02	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	0.05	<0.02	<0.02	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	----	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	<0.02	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	----	----



Analytical Results

Sub-Matrix: ASLP LEACHATE
 (Matrix: WATER)

Sample ID

				QC02	QC04	QC06	----	----
Sampling date / time				17-Oct-2023 00:00	17-Oct-2023 00:00	17-Oct-2023 00:00	----	----
Compound	CAS Number	LOR	Unit	EB2332809-001	EB2332809-002	EB2332809-003	-----	-----
				Result	Result	Result	----	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides - Continued								
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	<0.02	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	<0.02	----	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	0.20	<0.05	<0.05	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	0.10	<0.05	<0.05	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	----	----
EP231_TOP_P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	65.0	9.61	3.46	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	0.07	0.30	2.06	----	----
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.01	µg/L	64.7	9.61	3.46	----	----
^ Sum of TOP C4 - C14 as Fluorine	----	0.01	µg/L	42.2	6.32	2.24	----	----
EP231_TOP_S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	89.5	108	100	----	----
13C8-PFOA	----	0.02	%	88.0	104	102	----	----

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	QC02	QC04	QC06	----	----
Sampling date / time				17-Oct-2023 00:00	17-Oct-2023 00:00	17-Oct-2023 00:00	----	----	
Compound	CAS Number	LOR	Unit	EB2332809-001	EB2332809-002	EB2332809-003	-----	-----	
				Result	Result	Result	----	----	
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content		----	0.1	%	26.9	5.8	18.2	----	----
EN60: ASLP Leaching Procedure - Inorganics/PFAS (Plastic Vessel)									
Extraction Fluid pH		----	0.1	pH Unit	7.0	7.0	7.0	----	----
Final pH		----	0.1	pH Unit	10.8	8.7	9.0	----	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)		375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0007	----	----
Perfluoropentane sulfonic acid (PFPeS)		2706-91-4	0.0002	mg/kg	<0.0002	<0.0002	0.0008	----	----
Perfluorohexane sulfonic acid (PFHxS)		355-46-4	0.0002	mg/kg	<0.0004	0.0012	0.0064	----	----
Perfluoroheptane sulfonic acid (PFHpS)		375-92-8	0.0002	mg/kg	<0.0002	<0.0002	0.0006	----	----
Perfluorooctane sulfonic acid (PFOS)		1763-23-1	0.0002	mg/kg	0.0014	0.0120	0.0563	----	----
Perfluorodecane sulfonic acid (PFDS)		335-77-3	0.0002	mg/kg	<0.0002	<0.0002	<0.0004	----	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)		375-22-4	0.001	mg/kg	0.019	<0.001	<0.001	----	----
Perfluoropentanoic acid (PFPeA)		2706-90-3	0.0002	mg/kg	0.0645	0.0010	0.0008	----	----
Perfluorohexanoic acid (PFHxA)		307-24-4	0.0002	mg/kg	0.0570	0.0022	0.0023	----	----
Perfluoroheptanoic acid (PFHpA)		375-85-9	0.0002	mg/kg	0.0087	0.0027	0.0006	----	----
Perfluorooctanoic acid (PFOA)		335-67-1	0.0002	mg/kg	0.0021	0.0013	0.0008	----	----
Perfluorononanoic acid (PFNA)		375-95-1	0.0002	mg/kg	0.0002	0.0002	0.0002	----	----
Perfluorodecanoic acid (PFDA)		335-76-2	0.0002	mg/kg	<0.0002	0.0002	<0.0002	----	----
Perfluoroundecanoic acid (PFUnDA)		2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	----	----
Perfluorododecanoic acid (PFDoDA)		307-55-1	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	----	----
Perfluorotridecanoic acid (PFTrDA)		72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	----	----
Perfluorotetradecanoic acid (PFTeDA)		376-06-7	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	----	----
EP231C: Perfluoroalkyl Sulfonamides									



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	QC02	QC04	QC06	----	----
Sampling date / time					17-Oct-2023 00:00	17-Oct-2023 00:00	17-Oct-2023 00:00	----	----
Compound	CAS Number	LOR	Unit		EB2332809-001	EB2332809-002	EB2332809-003	-----	-----
					Result	Result	Result	----	----
EP231C: Perfluoroalkyl Sulfonamides - Continued									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg		<0.0002	<0.0002	0.0003	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg		0.0600	0.0078	0.0019	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		0.0165	0.0016	0.0009	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	----	----
EP231P: PFAS Sums									
Sum of PFAS	----	0.0002	mg/kg		0.229	0.0302	0.0726	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		0.0014	0.0132	0.0627	----	----
Sum of PFAS (WA DER List)	----	0.0002	mg/kg		0.229	0.0298	0.0707	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		76.5	79.0	82.5	----	----
13C8-PFOA	----	0.0002	%		101	100	94.0	----	----



Surrogate Control Limits

Sub-Matrix: ASLP LEACHATE		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231_TOP_S: PFAS Surrogate			
13C4-PFOS	----	55	131
13C8-PFOA	----	66	128

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	----	76	136
13C8-PFOA	----	78	131

Appendix D – Rembind Paper/Information

PFAS Soil Remediation

Product Description

RemBind is a powdered adsorbent that binds strongly to per- and polyfluoroalkyl substances (PFAS) in soil, preventing them from leaching into groundwater where they can cause serious harm to the environment and human health.

RemBind contains a patented blend of ingredients including aluminium hydroxide, carbon and clays. This mixture mimics and enhances the PFAS-binding capacity of natural soils.

Full Scale Projects

RemBind has been used to treat PFAS-impacted soil at full commercial scale in USA, Sweden and Australia with local regulatory approvals. In 2015, 1,000 MT of soil was treated in Australia with RemBind and disposed safely to landfill with full regulatory sign off and no further management requirements.

Proven Long Term Stability

The long term stability of the RemBind reaction has been successfully tested using the US EPA Method 1320 which simulates 1,000 years of stability in an acid rain environment in an improperly lined landfill.

The Treatment Process

RemBind is added to the soil at an addition rate of 1% to 5% and mixed while adding water to achieve a final moisture content of around 20% to 30%. The treated soil is fixed for 24 hours and the remediation process is complete.

Mixing Equipment

For most projects, conventional earth moving equipment such as a loader/excavator and a water truck can be used. For larger projects, specialized soil blending equipment can process up to 500 MT per day per machine.



RemBind being applied to treat PFAS soil in Sweden



RemBind being applied to treat PFAS soil in Australia

Benefits

- Cost-effective compared to soil washing and thermal treatment
- Binds short- and long-chain PFAS substances
- Rapid remediation - 24 hours
- Easy to apply with conventional equipment
- Proven long term stability - US EPA 1320
- Independently validated by industry and government

US Field Study Demonstrates Long Term Stability of PFAS Immobilisation

An independent field study at a US site has demonstrated that the RemBind® technology immobilises PFAS contaminants without release after more than 16 months of monitoring, potentially paving the way for the safe onsite reuse of PFAS contaminated soils.

The performance of RemBind® was independently evaluated in the field at a US site by a global environmental firm. The powdered adsorbent was mixed directly into PFAS contaminated soil at a dosage rate of 5% to a depth of around 4.5 metres using rotary mixers. Portland cement was added simultaneously at a dosage rate of 10% to improve the geotechnical stability of the soil – important when considering future use of the treated site.

The treated soil was monitored over 16 months using US EPA Method 1315 to measure PFAS leaching from the soil. No PFAS leaching was detected after more than 16 months of monitoring. A further 2 years of monitoring is planned at site.

In-Situ Stabilisation/Solidification (ISS) is a widely adopted technique in the US for the remediation of heavy metals, but this is one of the first field-scale demonstrations of the technique for the treatment of PFAS contaminants.

“This study paves the way for the *in-situ* treatment of PFAS source zones, avoiding unsustainable dig and dump approaches and giving future generations the peace of mind that the PFAS binding is stable long term” said Dr Richard Stewart, Managing Director of RemBind Pty Ltd.

These real-world results support previous independent laboratory studies that simulated 100’s of years of stability under a range of environmental conditions using US EPA Methods 1313 and 1314.

PFAS refers to a mixture of synthetic chemicals used in some fire-fighting foams that are found in the soil across 100’s of airport sites worldwide. They are potentially toxic to human health and are dubbed ‘Forever Chemicals’ due to their persistence in the environment.

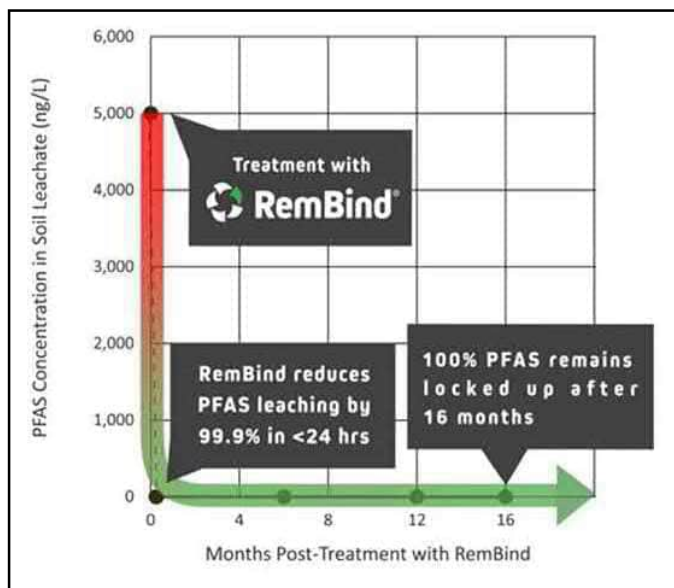
RemBind® is a powdered adsorbent that chemically immobilises (or ‘locks up’) PFAS contaminants in soil to prevent them leaching into groundwater where they can cause harm to the environment and can reach drinking water sources. RemBind® is considered world’s best practice for the immobilisation of PFAS in soil and has been applied commercially at field-scale in Europe, USA and Australia.

AquaBlok Ltd is the exclusive distributor for RemBind® products in North America.



Adding RemBind and Portland cement to immobilise PFAS contaminants at a US field site

Reduction in PFAS Leachability over 16 Months



"... giving future generations the peace of mind that the PFAS binding is stable long term"

Dr Richard Stewart
RemBind Pty Ltd



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Durability of sorption of per- and polyfluorinated alkyl substances in soils immobilized using common adsorbents: 2. Effects of repeated leaching, temperature extremes, ionic strength and competing ions

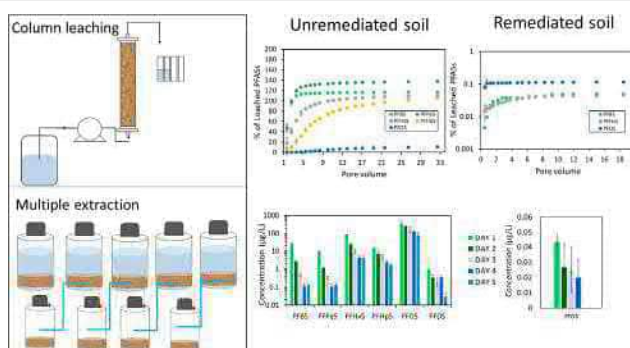
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HIGHLIGHTS

- Short-chain PFASs desorbed completely and quicker than long-chain compounds during column leaching.
- Long-chain PFASs did not desorb completely using repeated or column leaching.
- No effect of temperature and ionic strength on PFASs leaching from remediated soils.
- No effect of HA and competing ions on PFASs leaching from remediated soils.

GRAPHICAL ABSTRACT



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ABSTRACT

Persistent use of aqueous film-forming foams containing per- and polyfluoroalkyl substances (PFASs) in firefighting has led to severe contamination of soil and aquifers at training sites, which makes remediation of such sites a necessity. We investigated the persistence of binding of PFASs to a mixed-mode remediation agent including repeated leaching, and the effects of competing ions and temperature extremes. The sorbent (RemBind®) was added to PFAS-contaminated soils and standard leaching procedures - the U.S. EPA Multiple Extraction Procedure and the U.S. EPA Leaching Environmental Assessment Framework were applied to quantify desorption of PFASs from remediated and unremediated soils. Possible desorption by competing anions such as orthophosphate (H_2PO_4^-) and humic acid (HA) were assessed, and effects of temperature extremes and ionic strength were also investigated. These are the main environmental factors that could potentially affect desorption of PFASs over time at a typical site. Desorption of PFASs from unremediated soils was related to C-chain length with short-chain PFASs easily desorbed and leached. PFASs with carboxylic head groups leached faster than those with a sulfonic acid head group. The sorbent retained PFASs strongly and reduced desorption and leaching from remediated soils by 92 to 99.9%. There were no detrimental effects on desorption of PFASs from temperature extremes or changes in ionic strength. In remediated soils, effects of competing ions were also absent or minimal. However, in unremediated soils increasing concentrations of orthophosphate and HA increased leaching of some long-chain PFASs. While short-term laboratory desorption experiments cannot exactly mimic long-term field conditions, these results provide site owners and regulatory authorities with a high level of confidence that PFASs binding by RemBind® is predicted to be persistent in the long term. However, to give the greatest level of confidence, these simulations should be validated under field conditions for at least several years.

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1. Introduction

Per- and polyfluoroalkyl substances (PFASs) are a group of synthetic organic compounds with exceptional surface-active properties (Campos Pereira et al., 2018; Goss and Bronner, 2006). Due to the presence of hydrophobic fluorinated carbon chains and hydrophilic functional head groups, PFASs have been extensively used in a variety of consumer products and different industries since the mid-1960s (Guelfo and Higgins, 2013; Høisæter et al., 2019; Ross et al., 2018). Owing to their high chemical stability, PFASs are not readily decomposable through chemical, physical and biological mechanisms and hence accumulate in the environment (Li et al., 2019). Furthermore, repeated application of aqueous film-forming foam (AFFF) at fire training areas of fire-fighting facilities, military bases (Baduel et al., 2015; Filipovic et al., 2015; Milley et al., 2018), landfill and sewage treatment plants (Gobelius et al., 2018) has resulted in severe contamination of the soil and these areas have been identified as potential point sources of PFASs contaminating surface waters and aquifers (Gellrich et al., 2013; Li et al., 2018; Murakami et al., 2009).

There are many remediation technologies which have been suggested for the treatment of PFASs in soils and waters (Ross et al., 2018), but stabilization of PFASs in soil using adsorbents is considered one of the most cost-effective, viable and efficient ways to remediate contaminated soils (Hale et al., 2017; Kupryianchuk et al., 2016; Ross et al., 2018; Söregård et al., 2019a, 2019b). The addition of adsorbent materials such as activated carbon (AC) (Hale et al., 2017), modified clays (Das et al., 2013), and mixed mode (mineral-organic) materials (Lath et al., 2018a; Söregård et al., 2019a) have been used to stabilize PFASs in soils. However, most of these studies investigated the static immobilization of PFASs in contaminated soils and few have examined the persistence of this immobilization. Recent reviews (Kucharzyk et al., 2017; Ross et al., 2018) have raised concerns regarding the long-term stabilization of PFASs by various sorbents since reduced efficiency of granulated AC on the stabilization of short-chain PFASs over time was reported (Appleman et al., 2014; McCleef et al., 2017).

The long-term stability of immobilization treatments is also one of the key questions posed by regulatory agencies. While it is widely accepted by industry and regulatory authorities that immobilization represents a cost-effective, viable technology for the remediation of soils contaminated with PFASs (Ross et al., 2018), it would have potentially dreadful consequences if the bound PFASs were released at some time in the future. This is particularly important when considering direct in situ immobilization techniques or the reuse of treated soils in unlined site areas. Therefore, it is very important that land owners and authorities gain the greatest level of confidence in the long-term stability of such treatments before allowing their widespread application.

By definition, long-term stability is difficult to assess rapidly. Different test protocols have therefore been developed to simulate the potential release of contaminants and their leaching mechanisms from contaminated soils and wastes, such as the United States Environmental Protection Agency (US EPA) Toxicity Characteristic Leaching Procedure (TCLP) (U.S.EPA, 1992a) and its Australian adaptation (Australian Standard Leaching Procedure (Standards Australia. Method AS4439.3, 1997), the Synthetic Precipitation Leaching Procedure (SPLP) (U.S.EPA, 1994), the European Standard Compliance Leaching Test (EN12457-1) (BS.EN, 2002), the US EPA Multiple Extraction Test (MEP-1320) (U.S. EPA, 1992b) and the more recent Leaching Environmental Assessment Framework (LEAF) (Garrabrants et al., 2011; Kosson et al., 2014). The ASLP specifies leaching of waste or soil using water or buffer at pH 5.0 and 9.2 depending on the landfill type and is a modification of the TCLP (Scott et al., 2007). On the other hand, the MEP is designed to evaluate the leachability of contaminants from repetitive precipitation of acid rain and reveals the highest concentration of each constituent that is likely to leach in a natural environment representing worst case scenario (U.S.EPA, 1992b). The LEAF consists of four different leaching methods and has been designed to evaluate the effect of key

environmental conditions and waste properties on potential leaching of contaminants, and LEAF Method 1314 has been specifically designed to simulate the leaching of constituents from solid material based on elution volume under percolation conditions. Each leaching test is designed to vary a critical release-controlling parameter such as pH, liquid-to-solid ratio, leaching time and repetitive leaching to provide an indication of potential release over a broad range of environmental conditions. Recently, several studies have investigated the stability of number of sorbents on stabilization of PFASs in contaminated soils by performing leaching tests in dynamic form following a similar procedure to the European standard compliance leaching test (EN12457-1) or a dynamic leaching test in water (Söregård et al., 2019a, 2019b). However, there is a lack of research to assess the potential mobilization of PFASs from remediated soils using the leaching procedures discussed, that are accepted by regulators. In addition, there are limited data on desorption of a wide range of PFASs from field-aged soils which are contaminated with AFFFs for many years.

Several studies have demonstrated that dissolved organic material (DOM) can reduce sorption of PFASs on carbonaceous sorbents due to competitive sorption and/or occupation of micropore spaces (Deng et al., 2015; Hansen et al., 2010; Zhao et al., 2011). Furthermore, varying concentrations of inorganic cations and anions can affect sorption of PFASs to soils or sorbents through electrical double-layer compression, surface charge neutralization, divalent cation bridging effects, salting-out and competitive adsorption (Chen et al., 2009; Chen et al., 2012; Qian et al., 2017a; Zhang et al., 2019). It has been also shown that low temperature favoured the adsorption of PFOS on minerals (Qian et al., 2017b). Sorption of PFASs on minerals and chitosan is partially hindered in the presence of inorganic anions such as Cl^- , SO_4^{2-} and $\text{Cr}_2\text{O}_7^{2-}$ (Deng et al., 2010; Wang et al., 2012; Zhang et al., 2011). However, there is a lack of research to assess the potential mobilization of PFASs from remediated soils using other standardised leaching tests and possible changes in environmental conditions that could promote desorption e.g. temperature changes, competing ions, etc.

In a previous study, we reported that the desorption and leaching of PFASs from two contaminated soils remediated with a mixed mode remediation agent (RemBind® 100) and AC were not affected by changes in soil pH in the range pH 3 to pH 10, which is the normal pH range for most soils. This study extends the evaluation of the mixed mode remediation agent to assess the effects of repeated leaching, competing ions, high temperatures and changes in soil salinity, with the aim to assess the sensitivity of immobilization to possible future changes in soil conditions that might affect the persistence of PFASs binding.

2. Materials and methods

2.1. Soil characterization and incubation with sorbent

Two soils were collected from two different AFFF-impacted military sites in Australia. They were air-dried, sieved (< 2 mm) and homogenized prior to analysis and characterized for different physical and chemical properties (SI, Table S1). The two soils, which had very different physical and chemical properties, and different histories and concentrations of AFFF contamination, were used to examine the efficacy and durability of in situ immobilization. Soils 1 and 2 were remediated with 5% of RemBind® 100 sourced from an environmental remediation company in South Australia (RemBind Pty Ltd., Australia). RemBind® 100 is a powdered reagent consisting of activated carbon, aluminium oxyhydroxides, kaolinite and other proprietary additives. Soils and RemBind® were agitated in an end-over-end shaker for 5 h prior to their moist incubation. Depending on soil texture, 150 and 60 mL of Millipore water was added to 1 kg of the remediated and unremediated Soils 1 and 2, respectively. Wetted soils were incubated at room temperature for 2 weeks in the dark before undergoing standardised leaching tests. The total concentrations of PFASs in the unremediated soils were measured by solvent extraction and liquid chromatography tandem

mass spectrometry (LC-MS-MS) as described previously (SI, Table S2) (Kabiri et al., 2021). Analytical detection limits in soil were between 2 and 5 µg/kg for all PFASs except PFBA (10 µg/kg).

2.2. Desorption/leaching tests

2.2.1. Modified multiple extraction procedure

The MEP (US EPA Method 1320) includes repetitive extractions of soil or sediment with an acidic solution (a mixture of H₂SO₄ and HNO₃) (U.S. EPA, 1992b). The MEP is designed to simulate repetitive leaching from materials in a scenario of acid rain on an improperly designed landfill. However, Deionised water (DI) was used as the extraction fluid in this study due to the lower leaching potential of PFASs at acidic pH values. Briefly, a 100 g sample of remediated or unremediated soil was transferred into the extraction vessel and water added to give a liquid:solid ratio of 16. The extraction vessels were agitated for 24 h in an end-over-end shaker and the slurries were centrifuged for 30 min (RCF, 5146 g) at the end of each extraction. The supernatant was removed before re-extraction and a further 1.6 L of DI water was added to each extraction vessel, and the procedure repeated up to 5 extractions. A subsample was collected at the end of each extraction and stored for analysis of PFASs and pH measurement (SI, Table S3). The MEP is designed to represent a worst case scenario of repeated leaching in the environment. Note the standard MEP test (U.S.EPA, 1992b) recommends 10 repeated extractions but as the LEAF procedure provides a more prolonged desorption protocol, we only used 5 extractions in this test.

2.2.2. Leaching environmental assessment framework (LEAF) method 1314

This method (US EPA LEAF 1314) (Kosson et al., 2014) is designed to provide the liquid-solid partitioning of inorganic or organic constituents, or hydrocarbons as a function of liquid-to-solid ratio (L/S) under percolation conditions. A Kartell polyethylene drying tube (outer diameter 1.65 cm, inner diameter 1.5 cm, length 15 cm) was packed with 10 g ± 0.1 g of either remediated or unremediated soil and both ends of the column were filled with acid-washed glass wool (Sigma-Aldrich), sealed with push-on connectors and tape. 1 mM CaCl₂ solution was introduced from the bottom of the column by the aid of a Gilson Miniplus® 3 peristaltic pump and the eluent was collected using a Gilson FC 204 fraction collector. The peristaltic pump speed was calibrated in a way that the collected mass of eluent in 24 h equalled 0.75 to 1 times the mass of soil in the column. The column leaching experiment was performed for 7 days, and 14 samples were collected each day. The weight and pH of each eluted fraction were recorded. The collected samples were combined to provide a total of 18 eluates and concentrations of PFASs determined by LC-MS-MS.

2.2.3. Australian standard leaching procedure

The Australian Standard Leaching Procedure (ASLP) was performed to test the potential leachability of the PFASs in the contaminated and remediated soils (Standards Australia. Method AS4439.3, 1997). The ASLP leaching test was performed in tetraborate buffer (pH 9.3) as we previously found little desorption at lower pH values compared to high pH (Kabiri et al., 2021).

2.2.4. Effects of competing ions, temperature extremes and ionic strength

The effect of incubation temperature, salinity (high and low EC), competing anions (H₂PO₄⁻ and HA) was investigated using ASLP.

A subsample of the remediated and unremediated soils was incubated at 45 °C and -15 °C to investigate the effect of temperature extremes on PFAS binding. The effect of salinity (EC) was investigated by using different concentrations (0–2 w%) of NH₄Cl to produce electrical conductivities in the range of those typically found in saline soils and landfills (0–17 dS/m) (Lath et al., 2018a). The tetraborate buffer has an EC of 12.20 dS/m and 0.5% NH₄Cl was made in tetraborate buffer to obtain an EC of 17.84 dS/m. Potential desorption of PFASs by H₂PO₄⁻ was performed using the ASLP but with 3 different concentrations of P

(3 × 10⁻⁴, 3 × 10⁻³ and 3 × 10⁻² M). Concentrations of H₂PO₄⁻ rarely exceed 1 µM in soil solution (Lath et al., 2018b). Increasing concentrations of HA (ENERSOL-350 SEN, 50, 100 and 200 mg of organic C /L) were added to explore the effect of HA on leaching of PFASs. Concentrations of HA in soil solutions are in the range of the rates of HA used here and similar values are found in landfill leachates (Martinen et al., 2002; McLaughlin et al., 1981). The pH of all samples was measured before and after the leaching procedure. The pH of buffer solutions with a varied amount of NH₄Cl, P and HA was in the range of 9.0 to 9.3.

2.3. Analytical standards and quality control/quality assurance

PFASs investigated in this study included; Perfluoroalkyl sulfonic acids (PFASs), such as: Perfluorobutane sulfonic acid (PFBS), Perfluoropentane sulfonic acid (PFPeS), Perfluorohexane sulfonic acid (PFHxS), Perfluoroheptane sulfonic acid (PFHpS), Perfluorooctane sulfonic acid (PFOS), Perfluorodecane sulfonic acid (PFDS); Perfluoroalkyl Carboxylic Acids (PFCAs) such as: Perfluorobutanoic acid (PFBA), Perfluoropentanoic acid (PFPeA), Perfluorohexanoic acid (PFHxA), Perfluoroheptanoic acid (PFHpA), Perfluorooctanoic acid (PFOA), Perfluorononanoic acid (PFNA), Perfluorodecanoic acid (PFDA), Perfluoroundecanoic acid (PFUnDA), Perfluorododecanoic acid (PFDoDA), Perfluorotridecanoic acid (PFTrDA); Perfluoroalkyl Sulfonamides such as: Perfluorooctane sulfonamide (FOSA) and (n:2) Fluorotelomer Sulfonic Acids (FTSs) such as: 4:2 Fluorotelomer sulfonic acid (4:2 FTS), 6:2 Fluorotelomer sulfonic acid (6:2 FTS), 8:2 Fluorotelomer sulfonic acid (8:2 FTS) and 10:2 Fluorotelomer sulfonic acid (10:2 FTS).

All leaching tests and analysis of PFASs were carried out in triplicate. Analysis of PFASs was performed by ALS Global Ltd. using liquid chromatography tandem mass spectrometry (LC-MS-MS) as described by Kabiri et al. (2021). The method detection limit ranged from 0.02 µg/L to 0.1 µg/L depending on the analyte (SI, Table S4). The concentration of all PFASs in the blank samples were below the method detection limit. Internal isotopically labelled standards were added to all leachates before the analysis with LC-MS-MS and their measurement recoveries are reported in SI, Table S4; recoveries ranged from 83% (PFHxS) to 102.3% (PFTrDA). Quality control was performed by duplicate analysis of randomly selected samples, which provided information regarding method precision (Kabiri et al., 2021).

2.4. Calculations

The percentage of total PFASs desorbed and leached was calculated as follows:

$$\% \text{ of leached PFASs} = \frac{C_w}{C_{\text{total}}} * 100 \quad (1)$$

where C_{total} is the total concentration of PFASs in soil (µg/kg) and C_w is the concentration of leached PFASs calculated according to:

$$C_w = \frac{C * V}{m} \quad (2)$$

where C (µg/L) is the concentration of PFASs in the leachate, V (L) is the volume of leachate (varied depending on leaching procedure) and m (g) is the weight of soil used in each leaching experiment. For remediated soil, m (g) included the mass of soil without remediation materials.

The percentage of leachable PFASs (%Re) retained after remediation was assessed by comparing the concentration of PFASs in the leachate of remediated soil to that in unremediated soil according to:

$$\% \text{ Re} = 100 - \left(\frac{C_{\text{remediated}}}{C_{\text{unremediated}}} * 100 \right) \quad (3)$$

where $C_{\text{remediated}}$ refers to the concentration of PFASs ($\mu\text{g/L}$) in the leachate of remediated soil and $C_{\text{unremediated}}$ refers to the concentration of PFASs ($\mu\text{g/L}$) in the leachate of unremediated soil.

Elution volumes from LEAF 1314 were converted to the leached pore volumes (PV) as follows:

$$PV = \text{porosity} * \text{soil volume} = \left(1 - \frac{\rho_{\text{bulk}}}{\rho_{\text{particle}}}\right) * \left(\frac{m_{\text{soil}}}{\rho_{\text{bulk}}}\right) \quad (4)$$

where ρ_{bulk} is the bulk density of remediated and unremediated Soil 1 or 2 as packed in the columns, ρ_{particle} is the particle density (assumed to be 2.65 g/cm^3), m_{soil} is the mass of soil packed into each column ($10 \text{ g} \pm 0.1$). The calculated PV was 5.3 and 6.8 cm^3 for unremediated and remediated Soil 1, respectively, and 4.1 and 4.3 cm^3 for unremediated and remediated Soil 2, respectively.

2.5. Statistical analysis

Analysis of variance (ANOVA) was performed using IBM SPSS statistical software. Multiple comparison of means was conducted using the least significant difference (LSD) test when the ANOVA indicated significant differences. The level of significance was set at $p \leq 0.05$.

3. Results and discussion

3.1. Soil properties and total concentration of PFASs in soils

Soils 1 and 2 had different particle size distributions and contents of organic carbon (Table S1), as well as very different profiles of PFAS contamination (Table S2). While Soil 1 contained 20 different PFASs with $\sum_{20} \text{PFASs}$ 37.2 mg/kg dw , Soil 2 was limited to 11 PFASs with $\sum_{11} \text{PFASs}$ of 0.7 mg/kg dw (SI Table S2). The difference in the

concentrations of PFASs in the two soils is likely due to the result of different histories of AFFF use, or different leaching pattern of PFASs over time. PFOS was the dominant PFAS in both soils and comprised $\sim 81\%$ and $\sim 96\%$ of total PFASs in Soils 1 and 2, respectively (SI, Table S2).

3.2. MEP

The concentration of PFASs leached varied depending on their initial concentration; in Soil 1 PFOS, PFHxS, PFOA and 8:2 FTS were at higher concentrations than other PFASs in all extractions (Fig. 1a-c). Short-chain PFASs were fully desorbed and leached mostly by the first extraction (SI, Table S5), and their concentration significantly decreased between the first two extractions. Long-chain PFASs leached gradually (SI, Table S5) over the extraction period due to their greater hydrophobic sorption to soil components (Söregård et al., 2019b).

The cumulative percentage of long-chain (with $C \geq 7$) PFASs leached from unremediated Soil 1 decreased as C-chain length increased (Fig. 2a, b, and SI, Fig. S1). Short-chain PFASs desorbed and leached completely by the first extraction while the cumulative percentage of PFASs leached was in some cases more than 100%. This has been observed in other studies due to the measurement uncertainty of total concentrations of PFASs in soil or due to the very low concentrations observed in leachates being close to the analytical method limit of detection (Hale et al., 2017). It can also be related to the transformation of other perfluoroalkyl-containing precursors or FTSs to short-chain PFASs during the leaching process, as degradation or transformation of PFASs are reported by others (Benskin et al., 2012; Hamid et al., 2018; Muir et al., 2019). A decrease in the leachability of PFASs from soil with increasing C-chain length has also been reported by Söregård et al. (2019a). We observed that some of the long-chain PFASs, particularly PFCAs with C_7 - C_9 and PFHpS, were leached equal to or greater than 100% by the end of 5 extractions. The PFASs of a given perfluorocarbon

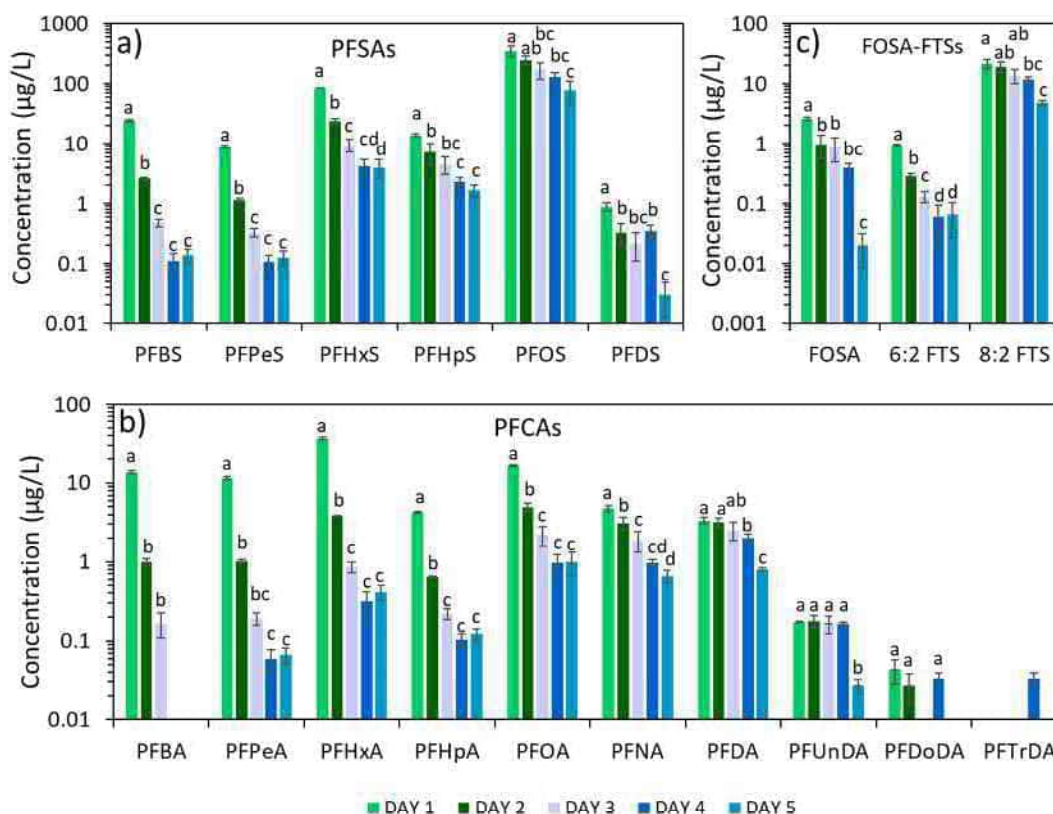


Fig. 1. Concentrations of leached a) PFASs, b) PFCAs and c) FOSA and FTSs in unremediated Soil 1 using MEP. Error bars refer to standard deviations, $n = 3$. The bars with different letters are significantly different ($p \leq 0.05$).

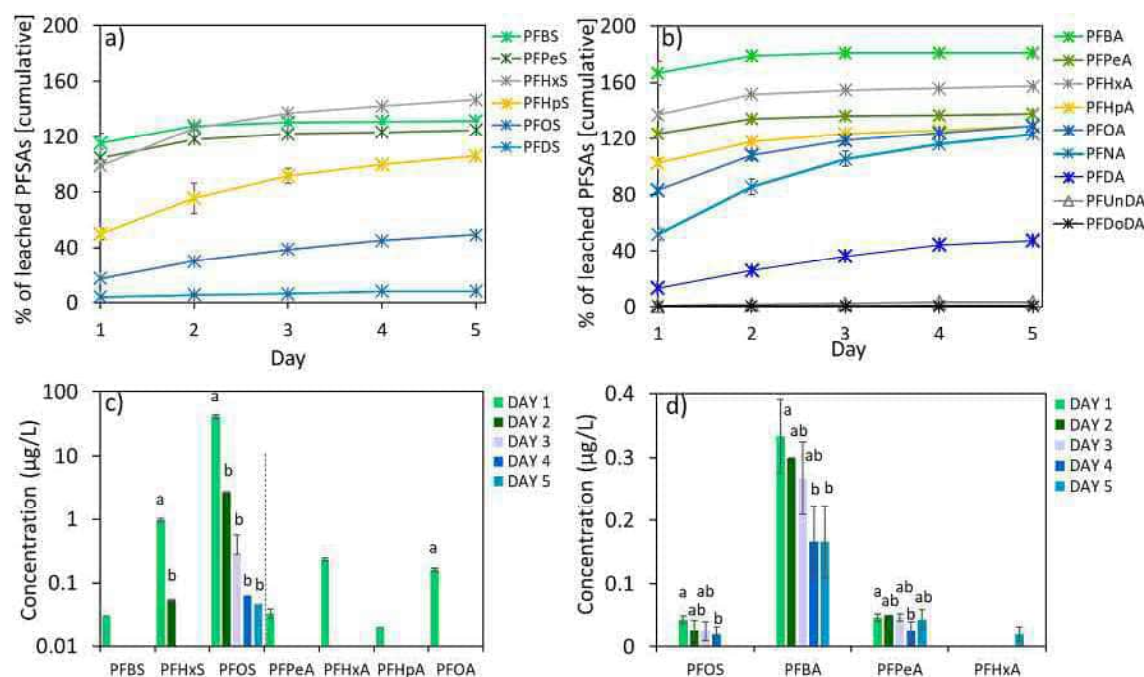


Fig. 2. Cumulative percentages of a) PFSAs and b) PFCAs leached from unremediated Soil 1, c) concentrations of PFASs leached from unremediated Soil 2 and d) concentrations of PFASs leached from remediated Soil 1. Error bars refer to standard deviations, $n = 3$. The bars with different letters are significantly different ($p \leq 0.05$).

chain length also leached less than their corresponding PFCAs (Fig. 2a and b), suggesting that the presence of the carboxylic functional head group leads to weaker sorption than the presence of a sulfonic functional head group. Sorption to soil components of PFASs with sulfonate head groups has been reported to be stronger than PFASs with carboxylic head groups (Ahrens et al., 2010; Ahrens et al., 2009; Campos Pereira et al., 2018; Higgins and Luthy, 2006). The presence of the sulphonamide head group also appeared not to favour desorption as FOSA desorbed 7.0 and 2.7-fold less than its anionic analogues, PFOA and PFOS, respectively. These desorption data agree with the sorption order of FOSA, PFOS and PFOA to sediments observed by others, (Ahrens et al., 2010; Ahrens et al., 2009; Campos Pereira et al., 2018) and the order of desorption from soil stabilized with cement (Söregård et al., 2019a).

The number of PFASs that leached from unremediated Soil 2 were less than the number of total PFASs detected in that soil (7 out of 11), probably due to very low concentrations for some analytes. All PFASs leached from Soil 2 were detected only in the first extraction, except PFHxS and PFOS (Fig. 2c). Desorption and leaching of PFOS continued over the 5 extractions similar to Soil 1, but concentrations dropped considerably from the first extraction to the second (15.5 fold). PFOS was completely leached from Soil 2 (SI, Fig. S2) while only 49% of PFOS leached from Soil 1. This was most likely due to the lower concentrations in Soil 2 and the lack of significant amounts of clay and organic carbon in this soil (SI, Table S1).

Treatment of Soil 1 and Soil 2 with RemBind® significantly decreased desorption of PFASs from both soils. Only PFOS, PFBA and PFPeA were desorbed and leached from remediated Soil 1 with concentrations in the soil leachate less than 0.5 µg/L (Fig. 2d). Nevertheless, these levels were still substantially less than those in the leachates of unremediated soil. There were no detectable concentrations of PFASs in the leachates of remediated Soil 2. The cumulative percentage of total PFBA leached from remediated Soil 1 was higher than PFOS and PFPeA (SI, Fig. S3). Concentrations of leachable PFASs were reduced by more than 99% in Soil 1 after remediation, except for PFBA (92%, SI, Table S6), and reductions in Soil 2 were 100% after remediation i.e. no detectable concentrations of PFASs were found. These results are

comparable to those obtained in similar desorption studies but under different conditions. For example, one study reported that the leachability of PFASs decreased up to 81% following the addition of 1% colloidal activated carbon in an extraction performed over 7 days in Millipore water (Söregård et al., 2019b). Another study from the same group reported that 10% of PFHxA, PFHpA, and PFBS leached from remediated soil with AC, whereas only 0.1 to 1% of long-chain PFASs ($C > 7$) leached (Söregård et al., 2019a). The lower reduction in the leachability of the short-chain PFCAs (i.e., PFBA and PFPeA) from Soil 1 by remediation is probably related to their high water solubility and small molecular weight, which can lead to weaker hydrophobic bonding or electrostatic attraction to the sorbent and faster diffusion to the water phase (Du et al., 2014; Higgins and Luthy, 2006).

3.3. LEAF 1314

All PFASs present in Soil 1 were detected in the first eluate from the columns. PFBS and PFPeS appeared in the first eluate and reached a maximum concentration at a PV of ~1.6 (Fig. 3a). The maximum concentration of desorbed PFSAs shifted to higher PVs as C-chain length increased, revealing their stronger binding to soil components and resistance to desorption (Fig. 3a). The same trend was observed for PFCAs. Elution of short-chain PFCAs was fast and the maximum concentrations were reached quickly while maximum concentrations for long-chain PFCAs occurred at higher PVs (Fig. 3b). The elution curves for desorption of short-chain PFASs ($C \leq 6$ for PFSAs and $C \leq 7$ for PFCAs) were sharp and narrow indicating rapid leaching. Long-chain PFASs leached much more slowly (Fig. 3a and b).

The cumulative percentage of short-chain PFASs desorbed reached a maximum very quickly and then plateaued while the percentage of long-chain PFSAs desorbed continued to increase steadily until the end of leaching (Fig. 3c and d). The percentage of PFASs desorbed decreased with an increase in C-chain length, especially for those with $C \geq 6$. On the other hand, it was independent of C-chain length for short-chain PFASs. The short-chain PFASs desorbed completely during the column leaching test due to their weaker binding to soil. FTSs desorbed in the same manner as other PFASs and 6:2 FTS leached

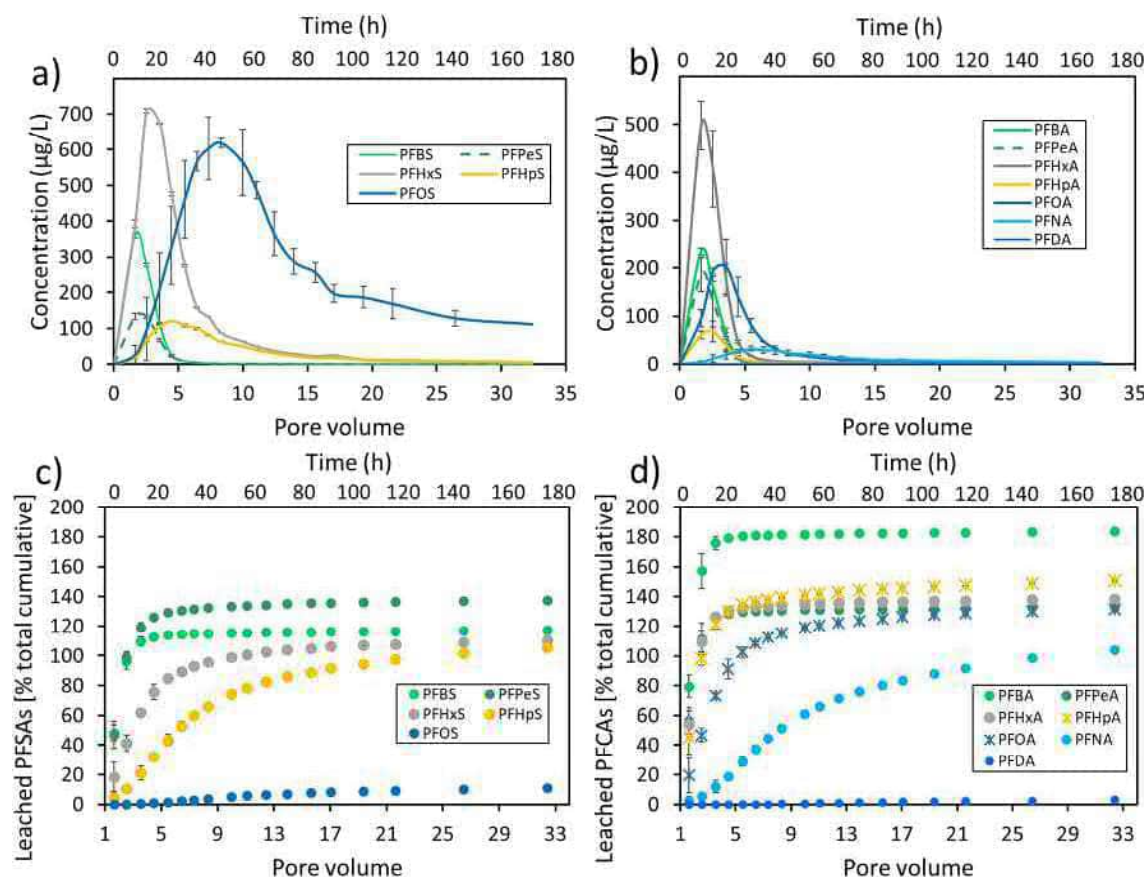


Fig. 3. Concentrations in pore volumes of eluant of a) PFASs and b) PFCAs, and the cumulative percentages of c) PFASs and b) PFCAs leached from unremediated Soil 1 using LEAF 1314.

quickly reaching a maximum concentration at 3.5 PV while the maximum concentration of 8:2 FTS leached was at ~11 PV (SI, Fig. S4). (Gellrich et al., 2012) also observed complete leaching of short-chain PFASs in the presence of long-chain PFASs and suggested more lipophilic molecules displaced short-chain PFASs from their binding sites in the soil. Examining breakthrough of PFASs in AFFF applied to sandy soil columns, Høisæter et al. (2019) showed that short-chain PFASs leached faster than long-chain PFASs without any retardation in the column and all short-chain PFASs were transported quickly through the soil.

Comparing desorption of PFASs with their corresponding PFCAs (with $C \geq 6$), the maximum concentration of desorbed PFCAs occurred at lower PVs than their corresponding PFASs, and PFCAs leached quicker than PFASs (SI, Fig. S5) presumably due to their weaker binding strength (Du et al., 2014; Söregård et al., 2019a). Furthermore, the percentage of PFOA eluted was higher than PFOS and FOSA (SI, Fig. S5) which corresponds to the MEP results and other studies which have shown weaker sorption of PFOA compared with PFOS and FOSA to soil components (Campos Pereira et al., 2018; Wang et al., 2015).

The concentration of PFASs eluted from unremediated Soil 2 varied depending on their initial concentration in the soil (SI, Fig. S6), similar to Soil 1. As found previously, the maximum concentration of eluted PFASs shifted to higher PVs with an increase in their C-chain length. PFOS was the only PFAS that continued to elute until the end of the leaching study. Again, the percentage of leached PFASs with $C \geq 6$ decreased with an increase in C-chain length. However, short-chain PFASs leaching was unrelated to the C-chain length (Fig. 4a and b). PFCAs with $C \geq 6$ desorbed faster than their corresponding PFASs (SI, Fig. S7), the same as Soil 1.

Remediation with RemBind® significantly decreased the concentrations of PFASs leached from Soil 1. PFBA, PFPeA, PFHxS and PFOS were the only substances detected in the eluates after 18.5 PVs had passed through the soil (SI, Table S7), while other PFASs were only detected in the first two PVs. The cumulative percentages of PFASs leached after remediation were less than 1% in Soil 1, except PFBA where 5.4% leached but plateaued after 48 h at a substantially lower concentration in the leachate than in the corresponding leachate from the unremediated soil (Fig. 4c and d). The reductions in leachable PFASs through remediation were more than 99% for most PFASs (SI, Table S8). There was no detectable leaching of PFASs after remediation of Soil 2, similar to the results obtained using the MEP.

The pH of leachates from unremediated and remediated Soil 1 remained in the range of 7.1 to 7.9 (SI, Fig. S8), slightly higher than eluant pH (6.5), likely buffered by soil clays and organic carbon. The pH of eluates from unremediated and remediated Soil 2 was in the range of 6.6 to 7.1, close to the pH of the eluant. This was likely due to the sandy texture of Soil 2 and its lower pH buffer capacity compared to Soil 1.

3.4. ASLP and the effect of orthophosphate

The dominant compounds desorbed from unremediated Soil 1 using the ASLP were PFOS, PFHxS, PFBS, PFHxA and 8:2 FTS (SI, Fig. S9). The leachability of PFSSs was again C-chain length dependent for PFASs with $C \geq 5$ or PFCAs with $C \geq 6$, similar to other leaching tests. Similar to Soil 1, the dominant compounds which desorbed and leached from Soil 2 were PFOS, PFHxS, PFOA and PFHxA (SI, Fig. S9). Addition of the remediation agent reduced the leachable concentrations of all PFASs by orders of magnitude, below method detection limits for most

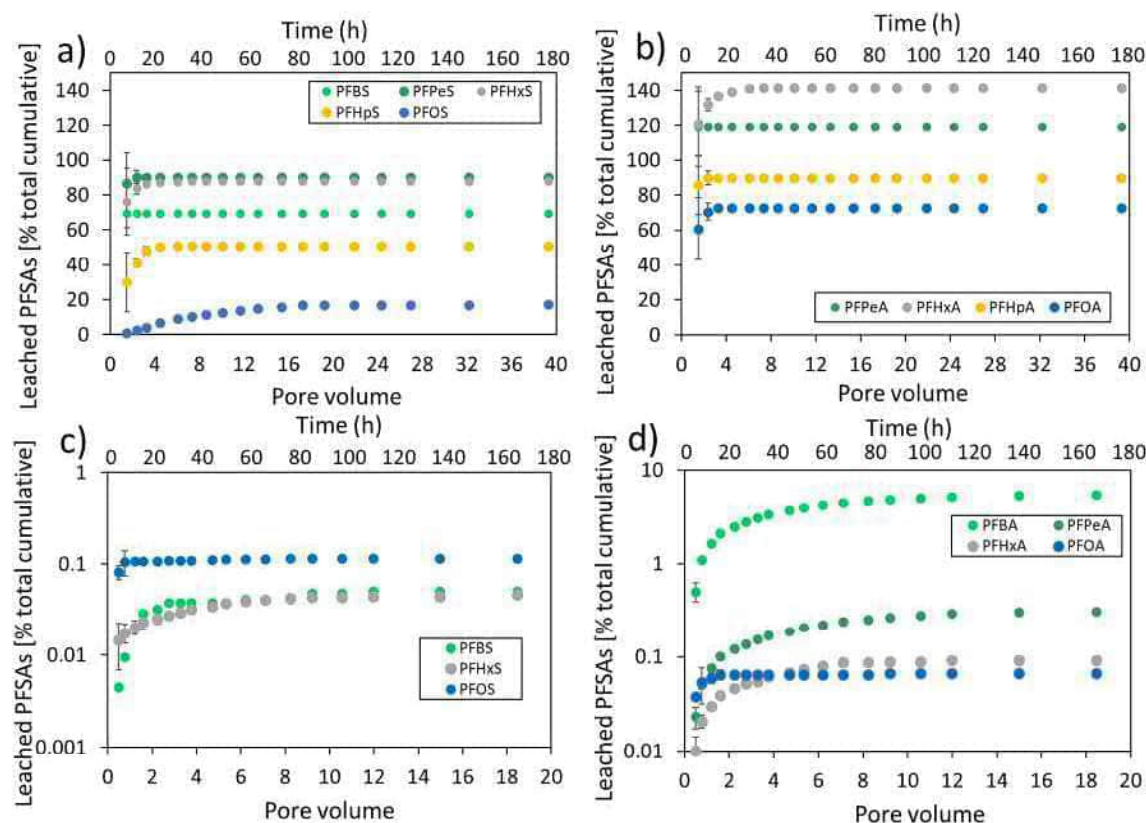


Fig. 4. Cumulative percentages of total a) PFASs and b) PFCAs leached from unremediated Soil 1 c) PFASs and d) PFCAs leached from remediated soil compared to soil total PFASs and PFCAs using US EPA LEAF Method 1314.

compounds (SI, Fig. S9). The number of leachable PFASs also decreased (from 15 to 6) in Soil 1 after remediation. There was no leaching of any PFASs in Soil 2 after remediation. The concentrations of PFOA, PFOS and PFHxS in leachates from Soil 1 were 0.06 $\mu\text{g/L}$ after remediation which was below the Interim Landfill Acceptance Criteria (0.07–7 $\mu\text{g/L}$) recently recommended for unlined landfills in Australia as part of the PFAS National Environmental Management Plan (EPAs of Australia and New Zealand (AUS.NZ.EPA, 2020)), although this does specify that a pH 5 or water leachate be used. The high extracting pH used in our study would be expected to leach more PFASs than a neutral or acidic leachate representing a worst-case scenario.

Addition of P had small or no effects on the desorption of PFASs from the remediated soils, but larger effects on the desorption of PFASs from unremediated soils (Fig. 5a and c, and SI, Fig. S10). When observed, effects of P appeared to be more pronounced in Soil 1, and for PFOS and PFBA in the unremediated treatment. This competitive effect indicates that some of the PFOS and PFBA bound to Soil 1 is possibly held via electrostatic attraction. However, the other PFASs were either evidently retained by bonds not liable to competition by orthophosphate, likely hydrophobic interactions, or most of the compound is already desorbed by the ASLP reagent. Any competitive effect of P was absent or less evident in the remediated soil, likely because the mixed mode remediation agent contains AC that binds PFASs through hydrophobic interactions. Furthermore, amorphous aluminium oxyhydroxides also present in the material have a high capacity to sorb anions such as arsenate and orthophosphate and therefore maintain low concentrations of orthophosphate in solution (Lath et al., 2018b; McLaughlin et al., 1981). Hence, remediation materials containing these minerals will tend to minimise any competitive effects of anions on PFASs binding through electrostatic effects. There was no leaching of any PFASs in Soil 2 after remediation in the presence of orthophosphate ions.

3.5. ASLP and effect of HA

Like P, addition of HA had little or no effect on the desorption of PFASs from the remediated soils, and small effects on the desorption of PFASs from unremediated soils (Fig. 5b and d, and SI, Fig. S10). Again, effects of HA, when observed, appeared to be more pronounced in Soil 1. Jeon et al. (2011) showed that the amount of PFOS and PFOA sorbed to clay decreased in the presence of HA. They implied that it was not due to competition by HA for binding sites on the clay but due to HA-PFOS/PFOA association in solution (complexation) (Jeon et al., 2011). However, both HA and PFASs are negatively charged at alkaline pH. As the ASLP was performed at a pH of 9.3, the electrostatic interaction of HA and PFASs in the solution would have been low, but hydrophobic interactions with uncharged domains on the soluble (and hence mostly hydrophilic) HA could have occurred. Similar to Soil 1, the amount of desorbed short-chain PFASs from Soil 2 was the same for different HA concentrations, as well as the control (Fig. 5d). PFOS and PFOA desorbed more in the presence of HA compared to the control. Further, there was not a significant difference in their leaching between different concentrations of HA due to their very low concentrations in Soil 2.

While unremediated Soil 1 had measurable concentrations of 15 different PFASs, remediated Soil 1 only had 8. The concentration of desorbed PFASs was significantly decreased in remediated soil compared to unremediated in the presence of HA. The concentration of desorbed PFASs was significantly high in leachate with high HA (200 mg C/L) compared to the control soil (remediated without HA) (Fig. 5b). Humic substances can be adsorbed on AC due to hydrophobic interactions or chemisorption (Daifullah et al., 2004; Duan et al., 2003). Therefore, there is the possibility that HA could compete with PFASs for sorption sites on AC and lead to greater desorption of some PFASs

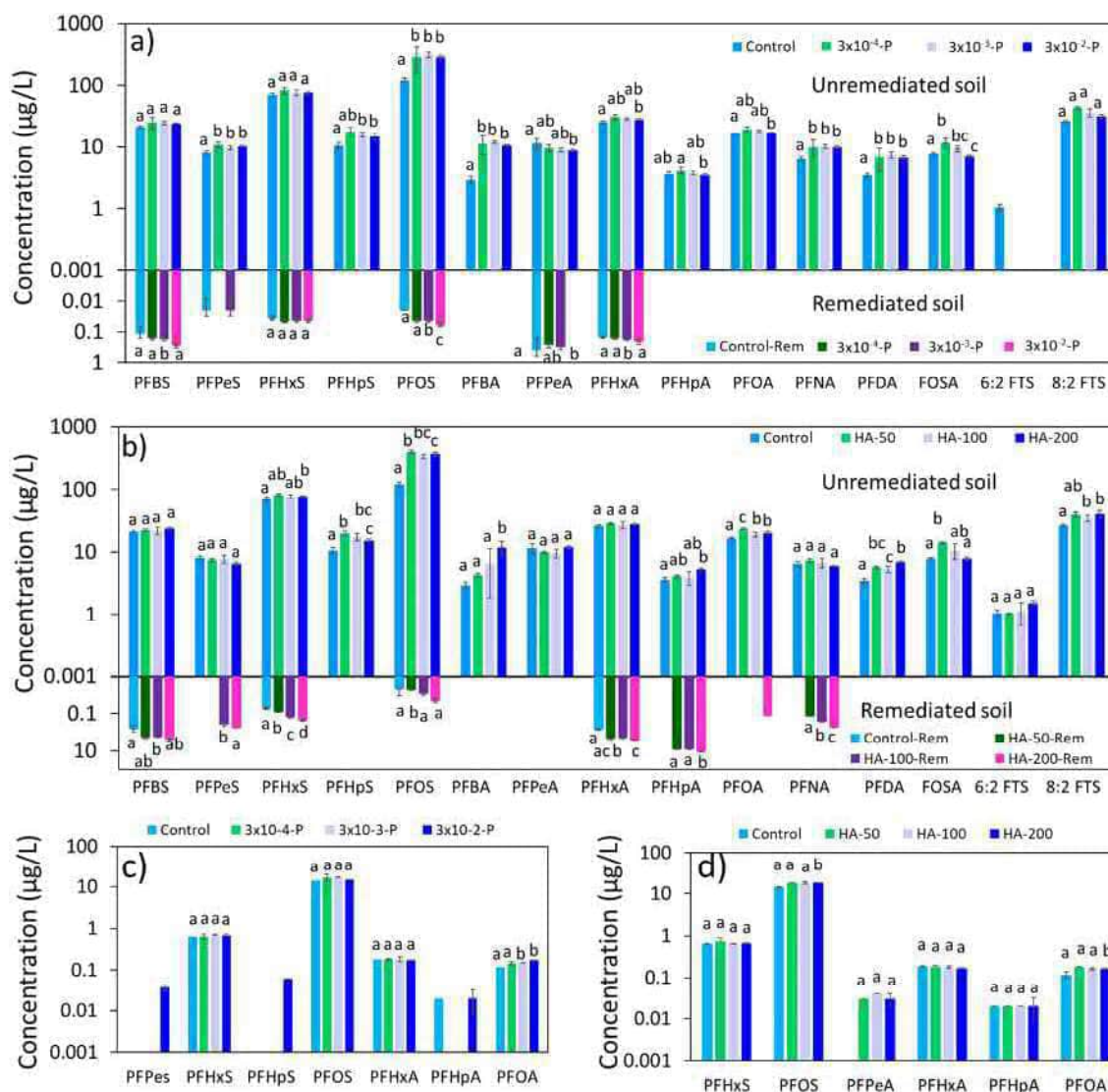


Fig. 5. Concentrations of PFASs leached from a) Unremediated and remediated Soil 1 in the presence of different concentrations of P, b) Unremediated and remediated Soil 1 in the presence of different concentrations (mg C/L) of HA, c) Unremediated Soil 2 in the presence of different concentrations of P (note all compounds were < DL in remediated soil), and d) Unremediated Soil 2 in the presences of different concentrations (mg C/L) of HA (note all compounds were < DL in remediated soil). Error bars refer to standard deviations, $n = 3$. The bars with different letters are significantly different ($p \leq 0.05$).

(Daifullah et al., 2004; Duan et al., 2003). Nonetheless, effects were small in the remediated soils except for PFOS and PFOA at the highest rate of HA added (200 mg C/L). The concentration of leachable PFHxS, PFOS and PFOA were still below the Interim Landfill Acceptance Criteria (0.07–7 µg/L). Concentrations of HA in soil solutions were in the range of the rates of HA used here and similar values are found in landfill leachates (Martinen et al., 2002; McLaughlin et al., 1981). There was no detectable PFASs in the leachate of remediated Soil 2 with the presence of HA due to their complete sorption to RemBind® because of their very low concentration.

3.6. ASLP and effects of temperature extremes and ionic strength

Freezing and high temperatures had little or no effect on the performance of the remediation material, and reductions in leachable concentrations (using the ASLP) of all compounds was still reduced by 96% or more (SI, Table S9), as determined (SI, Fig. S11 and S12). In unremediated soil, effects of extreme temperatures or high ionic strength on desorption and leaching of all compounds were also small or absent. However, there was a significant difference in

the concentration of leachable PFASs between remediated and unremediated Soil 1. Again there was no leachable PFASs from remediated Soil 2.

Some studies have observed that higher ionic strengths in solution can enhance sorption of PFASs on soil and sediments (Jeon et al., 2011; Tang et al., 2010; You et al., 2010), or high temperature can increase sorption of PFOS and PFOA to polyaniline nanotubes, biochar, pulverised activated carbon and HA (Guo et al., 2017; Jia et al., 2010; Qian et al., 2017c; Xu et al., 2015). However, this was not observed in this study, because the EC of the control leachate was very high and enhancing the EC did not affect the leaching. It also seems that the effect of temperature extremes was negligible compared to the effect of EC and pH. Hence, perturbations in these environmental variables over time are unlikely to increase desorption of PFASs from soils remediated with the mixed mineral sorbent used here.

Other possible mechanisms which could cause remediation to be ephemeral would be decomposition of the sorbing phases. For the mixed mineral/organic material used here, this could be due to extreme acidification dissolving the Al oxyhydroxide component, or due to biological degradation of the AC component. We showed previously that

the Al oxyhydroxides do not dissolve until solution pH values fall to below ~3.0 (Kabiri et al., 2021), conditions not common in soils, except in extreme cases e.g. acid-sulfate soils. Biological degradation of AC in the soil is also possible but very slow. Foerid et al. (2011) estimated that charcoal in soils degrades at a rate of 0.1% per year. While short-term laboratory experiments cannot absolutely guarantee long-term stability, these data give confidence that in situ remediation of source zone soils with the mixed mineral/organic remediation agent RemBind® will likely be stable for extended periods under environmental perturbations of pH, extreme temperatures, high ionic strength and possible high concentrations of competing ions in the environment. While these are the main environmental parameters that are expected to affect desorption of PFASs in the field, extreme site scenarios such as those with organic solvents as co-contaminants or sites with extremely high or low pH warrant further investigation.

4. Conclusions

Remediation of two PFAS-contaminated source-zone soils using the mixed mineral/organic remediation agent RemBind® was highly effective in markedly reducing the leachable concentrations of all PFASs, as determined by three desorption procedures commonly used by regulatory agencies worldwide. Combined with earlier data from our laboratory on pH stability of PFAS binding (Kabiri et al., 2021), the persistence of this remediation appears to be robust against environmental perturbations of pH, extreme temperatures, high ionic strength and high concentrations of competing ions in the environment. In situ remediation of source zone soils with this mixed mineral remediation agent will likely be stable in soil for extended periods under the wide range of environmental variables tested here, which should encompass most site conditions expected to change the desorption of PFASs. However, to give the greatest level of confidence to site owners and regulatory authorities, these simulations should be validated under field conditions over at least a few years.

CRedit authorship contribution statement

Shervin Kabiri: Conceptualization, Methodology, Software, Formal analysis, Investigation, Resources, Writing – original draft, Writing – review & editing, Visualization, Supervision. **Michael J. McLaughlin:** Conceptualization, Methodology, Writing – review & editing, Supervision.

Declaration of competing interest

The authors declare that they have no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper.

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Appendix A. Supplementary data

Supplementary data to this article can be found online at <https://doi.org/10.1016/j.scitotenv.2020.144718>.

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Appendix E – Notification to DES



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11th March 2022

RE: EA0002264 Notification to Department of Environment and Science

To whom it may concern,

To satisfy condition T6 of Environmental Authority EA0002264, this is written confirmation notifying the Department the commencement of PFAS treatment trial (sludge and solids only).

Kind Regards,

Daniel Blair

General Manager

Hi Quality Waste Treatment Services

Part of the Hi-Quality Group of Companies

Head Office & Accounts

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Appendix F – Stack Emissions Monitoring

EMISSIONS MONITORING – HI QUALITY WASTE, YATALA

Unit 10/53 Metroplex Avenue
Murarrie
QLD, 4172

PFAS Emissions Monitoring Report

ADE Consulting



Accredited for Compliance with ISO/IEC 17025 – Testing

Sampling Dates: 16-17
September 2023

Issued: 7 December 2023

Report: 237401.0158.PFAS.R01

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NATA Accreditation Number: 15841
Accredited for compliance with ISO/IEC 17025 – Testing
Should you have any queries regarding the contents of this document, please contact Trinity Consultants Australia.

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EXECUTIVE SUMMARY

PFAS Emissions sampling was conducted from the baghouse filter stacks at the Hi-Quality Waste Treatment Services facility in Yatala on the 17-18 October 2023. A summary of the results compared to the licence limits are included in Table E1 below.

Table E1-1: Summary of Results

Compound	Stack 1 (EF1)	Stack 2 (EF2)	Units
	Measured Emissions	Measured Emissions	
PFBA (375-22-4)	_*	9.99	ng/Nm ³
PFHpA (375-85-9)	_*	0.56	ng/Nm ³
PFOA (335-67-1)	1.82	2.46	ng/Nm ³
PFUdA (2058-94-8)	_*	0.58	ng/Nm ³
PFDoA (307-55-1)	_*	0.50	ng/Nm ³
PFTTrDA (72629-94-8)	_*	0.37	ng/Nm ³
PFTeDA (376-06-7)	_*	0.34	ng/Nm ³
PFBS (375-73-5)	0.18	0.19	ng/Nm ³
PFHxS (355-46-4)	_*	0.13	ng/Nm ³
PFOS (1763-23-1)	0.13	0.28	ng/Nm ³

_* - Sample below level of detection.

Only PFAS (and TOPA treatment) compounds measured above the detection limits are reported. No PFAS with TOPA treatment analysis were recorded above the detection limits.

The following compounds were analysed for: PFBA (375-22-4), PFPeA (2706-90-3), PFHxA (307-24-4), PFHpA (375-85-9), PFOA (335-67-1), PFNA (375-95-1), PFDA (335-76-2), PFUdA (2058-94-8), PFDoA (307-55-1), PFTTrDA (72629-94-8), PFTeDA (376-06-7), PFBS (375-73-5), PFPeS (2706-91-4), PFHxS (355-46-4), PFHpS (375-92-8), PFOS (1763-23-1), PFNS (68259-12-1), PFDS (335-77-3), PFDoS (79780-39-5), PFOSA (754-91-6), N-MeFOSAA (2355-31-9), N-EtFOSAA (2991-50-6), N-EtFOSE (1691-99-2), 4:2 FTS (757124-72-4), 6:2 FTS (27619-97-2), 8:2 FTS (39108-34-4), 10:2 FTS (120226-60-0), ADONA (919005-14-4), HFPO-DA (13252-13-6), 9Cl-PF3ONS (756426-58-1), 11Cl-PF3OUdS (83329-89-9).

1. INTRODUCTION

ADE Consulting commissioned Trinity Consultants Australia to conduct monitoring of air emissions from the Hi-Quality Waste Treatment Services facility, as part of their requirements under the Queensland Department of Environment and Science Environmental Authority for the facility.

Table 1-1 details the monitoring locations and the monitoring performed at each location. The monitoring was completed on 17 and 18 October 2023.

Table 1-1: Monitoring Locations and Parameters

Compound	Release Point	
	EF1	EF2
Velocity, Flowrate and Temperature	✓	✓
Oxygen and Carbon Dioxide	✓	✓
Moisture Content	✓	✓
PFAS	✓	✓
PFAS (with TOPA treatment analysis)	✓	✓

The monitoring of air emissions at the Hi-Quality Waste Treatment Services facility was completed during normal operating conditions. Any factors that may have affected the monitoring results were not observed by, or brought to the notice of Trinity Consultants Australia staff except where noted in this report.

2. METHODOLOGY

2.1 Emission Testing

Table 2-1 below lists the Methods used when undertaking emission monitoring at Hi-Quality Waste Treatment Services.

All air quality monitoring undertaken by the Trinity Consultants Australia staff has been undertaken in accordance with the methods identified in Table 2-1 below unless as specified in Section 2.3.

Table 2-1: Summary of Emission Monitoring Methods

Measurement Parameter	Method Equivalency
Sampling Positions	AS4323.1-2021 Selection of sampling positions and measurement of velocity in stacks
Velocity, Flowrate and Temperature	AS4323.1-2021 Selection of sampling positions and measurement of velocity in stacks
Oxygen and Carbon Dioxide	USEPA Method 3a Determination of Oxygen and Carbon Dioxide Concentrations in Emissions from Stationary Sources
Moisture Content	USEPA Method 4 Determination of Moisture Content in Stack Gases
PFAS (and TOPA treatment) analysis	US EPA OTM-45: Measurement of Selected Per and Polyfluoroalkyl Substances (PFAS) from Stationary Sources

2.2 Laboratory Analysis

Table 2-2 provides a list of the NATA accredited laboratories that performed the applicable analysis, NATA accreditation number, and report number.

Table 2-2: Table of NATA Accredited Laboratories with NATA Accreditation Number

Measurement Parameter	NATA Accreditation Number	Report Number
PFAS	National Measurement Institute - 198	RN 1412610, RN 1412613 RN 1412616, RN1412911 RN1412914, RN1412915

2.3 Deviation from Methods

The gas meter and critical orifice within the isokinetic sampling console was aligned as per specified by US EPA Method 5 - Determination of Particulate Matter Emissions from Stationary Sources. AS4323.2 requires the critical orifice to be positioned before the gas meter within the sampling system.

Process Conditions

Sampling was conducted under normal process conditions. Sampling at each location was only conducted after the operator confirmed production was normal. Hi-Quality maintain their own records of process conditions

3. RESULTS

3.1 Monitoring Results

3.1.1 EF1

Results of emissions monitoring for Stack EF1 are provided in Table 3-2 and Table 3-3 below for emissions monitoring completed on 18 October 2023.

Table 3-1: Flow and Sample Characteristics for EF1

Parameter	Monitoring Result PFAS	Monitoring Result PFAS (TOPA Treatment)	Units
Run Start Time	10:24	10:14	hh:mm
Run Stop Time	13:31	12:59	hh:mm
Meter Calibration Factor	0.998	1.021	-
Pitot Tube Coefficient	0.84	0.84	-
Nozzle Diameter	12.70	12.70	mm
Total Meter Volume	3.963	3.521	m ³
Average Meter Temperature	33	44	°C
Average Stack Temperature	30	34	°C
Barometric Pressure	756.81	756.06	mm Hg
Stack Static Pressure	-35.7	-35.1	mm H ₂ O
Calculated Stack Moisture	1.1	2	%
Carbon Dioxide Percentage	0.01	0.03	%
Oxygen Percentage	20.00	21.02	%
Dry Gas Molecular Weight	28.88	28.85	g/g-mole
Wet Stack Gas Molecular Weight	28.68	28.63	g/g-mole
Average Stack Gas Velocity	2.9	2.9	m/s
Average Stack Gas Velocity at Exit (m)	18.7	18.8	m/s
Stack Diameter	1.345 x 1.83	1.345 x 1.83	m
Actual Stack Flow Rate	430	440	m ³ /min
Dry Standard Stack Flow Rate	380	380	Nm ³ /min
Percent of Isokinetic Rate	96.2	96.9	%

Table 3-2: PFAS with TOPA Treatment Emissions Monitoring Results for EF1

Compound	Stack 1 (EF1)	Units
	Measured Emissions	
PFOA (335-67-1)	1.82	ng/Nm ³
PFBS (375-73-5)	0.18	ng/Nm ³
PFOS (1763-23-1)	0.13	ng/Nm ³

Only PFAS (and TOPA treatment) compounds measured above the detection limits are reported. No PFAS with TOPA treatment analysis were recorded above the detection limits.

The following compounds were analysed for: PFBA (375-22-4), PFPeA (2706-90-3), PFHxA (307-24-4), PFHpA (375-85-9), PFOA (335-67-1), PFNA (375-95-1), PFDA (335-76-2), PFUdA (2058-94-8), PFDaA (307-55-1), PFTTrDA (72629-94-8), PFTeDA (376-06-7), PFBS (375-73-5), PFPeS (2706-91-4), PFHxS (355-46-4), PFHpS (375-92-8), PFOS (1763-23-1), PFNS (68259-12-1), PFDS (335-77-3), PFDoS (79780-39-5), PFOSA (754-91-6), N-MeFOSAA (2355-31-9), N-EtFOSAA (2991-50-6), N-EtFOSE (1691-99-2), 4:2 FTS (757124-72-4), 6:2 FTS (27619-97-2), 8:2 FTS (39108-34-4), 10:2 FTS (120226-60-0), ADONA (919005-14-4), HFPO-DA (13252-13-6), 9Cl-PF3ONS (756426-58-1), 11Cl-PF3OUdS (83329-89-9).

3.1.2 EF2

Results of emissions monitoring for Stack EF2 are provided in Table 3-3 and Table 3-4 below for emissions monitoring completed on 17 October 2023.

Table 3-3: Flow and Sample Characteristics for EF2

Parameter	Monitoring Result PFAS	Monitoring Result PFAS (TOPA Treatment)	Units
Run Start Time	08:50	08:55	hh:mm
Run Stop Time	11:38	11:43	hh:mm
Meter Calibration Factor	0.998	1.021	-
Pitot Tube Coefficient	0.84	0.84	-
Nozzle Diameter	12.70	12.70	mm
Total Meter Volume	4.145	3.893	m ³
Average Meter Temperature	26	37	°C
Average Stack Temperature	25	29	°C
Barometric Pressure	759.81	759.81	mm Hg
Stack Static Pressure	-27.4	-27.4	mm H ₂ O
Calculated Stack Moisture	0.5	1.7	%
Carbon Dioxide Percentage	0.01	0.04	%
Oxygen Percentage	20.00	21.02	%
Dry Gas Molecular Weight	28.80	28.85	g/g-mole
Wet Stack Gas Molecular Weight	28.75	28.66	g/g-mole
Average Stack Gas Velocity (Sampling plane)	3.3	3.3	m/s
Average Stack Gas Velocity at Exit (m)	21.3	21.5	m/s
Stack Diameter	2 x 2.05	2 x 2.05	m
Actual Stack Flow Rate	810	820	m ³ /min
Dry Standard Stack Flow Rate	740	730	Nm ³ /min
Percent of Isokinetic Rate	99.0	93.5	%

Table 3-4: PFAS with TOPA Treatment Emissions Monitoring Results for EF1

Compound	Stack 2 (EF2)	Units
	Measured Emissions	
PFBA (375-22-4)	9.99	ng/Nm ³
PFHpA (375-85-9)	0.56	ng/Nm ³
PFOA (335-67-1)	2.46	ng/Nm ³
PFUdA (2058-94-8)	0.58	ng/Nm ³
PFDaA (307-55-1)	0.50	ng/Nm ³
PFTTrDA (72629-94-8)	0.37	ng/Nm ³
PFTeDA (376-06-7)	0.34	ng/Nm ³
PFBS (375-73-5)	0.19	ng/Nm ³
PFHxS (355-46-4)	0.13	ng/Nm ³
PFOS (1763-23-1)	0.28	ng/Nm ³

Only PFAS (and TOPA treatment) compounds measured above the detection limits are reported. No PFAS with TOPA treatment analysis were recorded above the detection limits.

The following compounds were analysed for: PFBA (375-22-4), PFPeA (2706-90-3), PFHxA (307-24-4), PFHpA (375-85-9), PFOA (335-67-1), PFNA (375-95-1), PFDA (335-76-2), PFUdA (2058-94-8), PFDaA (307-55-1), PFTTrDA (72629-94-8), PFTeDA (376-06-7), PFBS (375-73-5), PFPeS (2706-91-4), PFHxS (355-46-4), PFHpS (375-92-8), PFOS (1763-23-1), PFNS (68259-12-1), PFDS (335-77-3), PFDoS (79780-39-5), PFOSA (754-91-6), N-MeFOSAA (2355-31-9), N-EtFOSAA (2991-50-6), N-EtFOSE (1691-99-2), 4:2 FTS (757124-72-4), 6:2 FTS (27619-97-2), 8:2 FTS (39108-34-4), 10:2 FTS (120226-60-0), ADONA (919005-14-4), HFPO-DA (13252-13-6), 9Cl-PF3ONS (756426-58-1), 11Cl-PF3OUdS (83329-89-9).

3.2 Accuracy of Monitoring Results

Tables Table 3-5 to Table 3-6 present a summary of the estimated method uncertainties for each of the monitoring parameters and location.

Table 3-5: Estimated Method Uncertainties for EF1

Measurement Parameter	Method	% Uncertainty	Uncertainty	Units
Oxygen	USEPA Method 3A	2.00	0.42	%
PFAS	US EPA OTM-45	30	-	%

Table 3-6: Estimated Method Uncertainties for EF2

Measurement Parameter	Method	% Uncertainty	Uncertainty	Units
Oxygen	USEPA Method 3A	2.00	0.42	%
PFAS	US EPA OTM-45	30	-	%

APPENDIX A GLOSSARY

Parameter or Term	Description
<	The analytes tested for was not detected, the value stated is the reportable limit of detection
µg	Micrograms (10 ⁻⁶ grams)
AS	Australian Standard
dscm	dry standard cubic meters (at 0°C and 1 atmosphere)
g	grams
kg	kilograms
m	metres
m ³	Cubic Metres, actual gas volume in cubic metres as measured.
mg	Milligrams
min	Minute
mg/m ³	Milligrams (10 ⁻³) per cubic metre.
mmH ₂ O	Millimetres of water
Mole	The mole, symbol mol, is the SI unit of amount of substance. One mole contains exactly 6.022 140 76 x 10²³ elementary entities. This number is the fixed numerical value of the Avogadro constant, N_A, when expressed in the unit mol⁻¹ and is called the Avogadro number. The amount of substance, symbol n, of a system is a measure of the number of specified elementary entities. An elementary entity may be an atom, a molecule, an ion, an electron, any other particle or specified group of particles. This definition implies the exact relation $N_A = 6.022\ 140\ 76 \times 10^{23} \text{ mol}^{-1}$. Inverting this relation gives an exact expression for the mole in terms of the defining constant N_A: $1 \text{ mol} = \left(\frac{6.022\ 140\ 76 \times 10^{23}}{N_A} \right)$ The effect of this definition is that the mole is the amount of substance of a system that contains 6.022 140 76 x 10²³ specified elementary entities.
N/A	Not Applicable
ng	Nanograms (10 ⁻⁹ grams)
Nm ³	Normalised Cubic Metres - Gas volume in dry cubic metres at standard temperature and pressure (0°C and 101.3 kPa).
ou	Odour Units
°C	Degrees Celsius
µg/m ³	Micrograms (10 ⁻⁶) per cubic metre. Conversions from µg/m ³ to parts per volume concentrations (ie, ppb) are calculated at 25 °C.
ppb / ppm	Parts per billion / million.
PM	Particulate Matter.
PM ₁₀ , PM _{2.5} , PM ₁	Fine particulate matter with an equivalent aerodynamic diameter of less than 10, 2.5 or 1 micrometres respectively. Fine particulates are predominantly sourced from combustion processes. Vehicle emissions are a key source in urban environments.
sec	Second
Sm ³	Standardised Cubic Metres - Gas volume in dry cubic metres at standard temperature and pressure (0°C and 101.3 kPa) and corrected to a standardised value (e.g. 7% O ₂).
STP	Standard Temperature and Pressure (0°C and 101.3 kPa).
TVOC	Total Volatile Organic Compounds. These compounds can be both toxic and odorous.
USEPA	United States Environmental Protection Agency

APPENDIX B LAB RESULTS



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Client	: AIR NOISE ENVIRONMENT 11/35 INGLESTON ROAD WAKERLEY QLD 4154	Job No.	: AIRN01/231024/1
		Quote No.	: QT-02257
		Order No.	:
		Date Sampled	: 16-OCT-2023
		Date Received	: 24-OCT-2023
Attention	: GARY HALL	Sampled By	: CLIENT
Project Name	:		
Your Client Services Manager	: Danny Slee	Phone	: 02 9449 0169

Lab Reg No.	Sample Ref	Sample Description
N23/022246	.	Blank-PFAS Filter #1 + Blank-PFAS Front Half rinse #2

Lab Reg No.		N23/022246		
Sample Reference	Units	.		Method
PFAS (per-and poly-fluoroalkyl substances)				
PFBA (375-22-4)	ng	<5		AUT_MET_10
PFPaA (2706-90-3)	ng	<5		AUT_MET_10
PFHxA (307-24-4)	ng	<3		AUT_MET_10
PFHpA (375-85-9)	ng	<3		AUT_MET_10
PFOA (335-67-1)	ng	<1		AUT_MET_10
PFNA (375-95-1)	ng	<1		AUT_MET_10
PFDA (335-76-2)	ng	<2		AUT_MET_10
PFUdA (2058-94-8)	ng	<1		AUT_MET_10
PFDaA (307-55-1)	ng	<1		AUT_MET_10
PFTTrDA (72629-94-8)	ng	<1		AUT_MET_10
PFTeDA (376-06-7)	ng	<1		AUT_MET_10
PFBS (375-73-5)	ng	<1		AUT_MET_10
PFPaS (2706-91-4)	ng	<1		AUT_MET_10
PFHxS (355-46-4)	ng	<0.5		AUT_MET_10
PFHpS (375-92-8)	ng	<1		AUT_MET_10
PFOS (1763-23-1)	ng	<0.5		AUT_MET_10
PFNS (68259-12-1)	ng	<1		AUT_MET_10
PFDS (335-77-3)	ng	<0.5		AUT_MET_10
PFDoS (79780-39-5)	ng	<0.5		AUT_MET_10
PFOSA (754-91-6)	ng	<0.5		AUT_MET_10
N-MeFOSAA (2355-31-9)	ng	<0.5		AUT_MET_10
N-EtFOSAA(2991-50-6)	ng	<0.5		AUT_MET_10
4:2 FTS (757124-72-4)	ng	<5		AUT_MET_10
6:2 FTS (27619-97-2)	ng	<5		AUT_MET_10
8:2 FTS (39108-34-4)	ng	<5		AUT_MET_10
10:2 FTS (120226-60-0)	ng	<5		AUT_MET_10
ADONA (919005-14-4)	ng	<0.5		AUT_MET_10
HFPO-DA (13252-13-6)	ng	<0.5		AUT_MET_10
9CI-PF3ONS (756426-58-1)	ng	<0.5		AUT_MET_10

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Lab Reg No.		N23/022246		
Sample Reference		.		
	Units			Method
PFAS (per- and poly-fluoroalkyl substances)				
11CI-PF3OUdS (83329-89-9)	ng	<0.5		AUT_MET_10
Pre-extraction standards				
13C4 PFBA	%	89		AUT_MET_10
13C5 PFPeA	%	86		AUT_MET_10
13C5 PFHxA	%	86		AUT_MET_10
13C4 PFHpA	%	78		AUT_MET_10
13C8 PFOA	%	93		AUT_MET_10
13C9 PFNA	%	80		AUT_MET_10
13C6 PFDA	%	85		AUT_MET_10
13C4 PFUnDA	%	79		AUT_MET_10
13C2 PFDODA	%	77		AUT_MET_10
13C2 PFTeDA	%	79		AUT_MET_10
13C3 PFBS	%	105		AUT_MET_10
13C3 PFHxS	%	103		AUT_MET_10
13C8 PFOS	%	75		AUT_MET_10
13C8 PFOSA	%	68		AUT_MET_10
d3 N-MeFOSAA	%	67		AUT_MET_10
d5 N-EtFOSAA	%	72		AUT_MET_10
13C2 4:2FTS	%	52		AUT_MET_10
13C2 6:2FTS	%	45		AUT_MET_10
13C2 8:2FTS	%	40		AUT_MET_10
13C3 HFPO-DA	%	83		AUT_MET_10



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01-DEC-2023

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Report No. RN1412610

Client : AIR NOISE ENVIRONMENT 11/35 INGLESTON ROAD WAKERLEY QLD 4154	Job No. : AIRN01/231024/1 Quote No. : QT-02257 Order No. : Date Sampled : 16-OCT-2023 Date Received : 24-OCT-2023 Sampled By : CLIENT
Attention : GARY HALL Project Name : Your Client Services Manager : Danny Slee	Phone : 02 9449 0169

Lab Reg No.	Sample Ref	Sample Description
N23/022250	.	EF1-PFAS Filter #1 + EF1-PFAS Front Half rinse #2

Lab Reg No.		N23/022250		
Sample Reference	Units	.		Method
PFAS (per-and poly-fluoroalkyl substances)				
PFBA (375-22-4)	ng	<5		AUT_MET_10
PFPeA (2706-90-3)	ng	<5		AUT_MET_10
PFHxA (307-24-4)	ng	<3		AUT_MET_10
PFHpA (375-85-9)	ng	<3		AUT_MET_10
PFOA (335-67-1)	ng	<1		AUT_MET_10
PFNA (375-95-1)	ng	<1		AUT_MET_10
PFDA (335-76-2)	ng	<2		AUT_MET_10
PFUdA (2058-94-8)	ng	<1		AUT_MET_10
PFDaA (307-55-1)	ng	<1		AUT_MET_10
PFTTrDA (72629-94-8)	ng	<1		AUT_MET_10
PFTeDA (376-06-7)	ng	<1		AUT_MET_10
PFBS (375-73-5)	ng	<1		AUT_MET_10
PFPeS (2706-91-4)	ng	<1		AUT_MET_10
PFHxS (355-46-4)	ng	<0.5		AUT_MET_10
PFHpS (375-92-8)	ng	<1		AUT_MET_10
PFOS (1763-23-1)	ng	<0.5		AUT_MET_10
PFNS (68259-12-1)	ng	<1		AUT_MET_10
PFDS (335-77-3)	ng	<0.5		AUT_MET_10
PFDoS (79780-39-5)	ng	<0.5		AUT_MET_10
PFOSA (754-91-6)	ng	<0.5		AUT_MET_10
N-MeFOSAA (2355-31-9)	ng	<0.5		AUT_MET_10
N-EtFOSAA(2991-50-6)	ng	<0.5		AUT_MET_10
4:2 FTS (757124-72-4)	ng	<5		AUT_MET_10
6:2 FTS (27619-97-2)	ng	<5		AUT_MET_10
8:2 FTS (39108-34-4)	ng	<5		AUT_MET_10
10:2 FTS (120226-60-0)	ng	<5		AUT_MET_10
ADONA (919005-14-4)	ng	<0.5		AUT_MET_10
HFPO-DA (13252-13-6)	ng	<0.5		AUT_MET_10
9CI-PF3ONS (756426-58-1)	ng	<0.5		AUT_MET_10

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Lab Reg No.		N23/022250		
Sample Reference		.		
	Units			Method
PFAS (per- and poly-fluoroalkyl substances)				
11CI-PF3OUdS (83329-89-9)	ng	<0.5		AUT_MET_10
Pre-extraction standards				
13C4 PFBA	%	49		AUT_MET_10
13C5 PFPeA	%	50		AUT_MET_10
13C5 PFHxA	%	51		AUT_MET_10
13C4 PFHpA	%	47		AUT_MET_10
13C8 PFOA	%	45		AUT_MET_10
13C9 PFNA	%	46		AUT_MET_10
13C6 PFDA	%	47		AUT_MET_10
13C4 PFUnDA	%	42		AUT_MET_10
13C2 PFDoDA	%	45		AUT_MET_10
13C2 PFTeDA	%	39		AUT_MET_10
13C3 PFBS	%	51		AUT_MET_10
13C3 PFHxS	%	52		AUT_MET_10
13C8 PFOS	%	43		AUT_MET_10
13C8 PFOSA	%	38		AUT_MET_10
d3 N-MeFOSAA	%	46		AUT_MET_10
d5 N-EtFOSAA	%	48		AUT_MET_10
13C2 4:2FTS	%	23		AUT_MET_10
13C2 6:2FTS	%	22		AUT_MET_10
13C2 8:2FTS	%	22		AUT_MET_10
13C3 HFPO-DA	%	44		AUT_MET_10



Gavin Stevenson, Analyst
Australian Ultra Trace Laboratory

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Client : AIR NOISE ENVIRONMENT 11/35 INGLESTON ROAD WAKERLEY QLD 4154	Job No. : AIRN01/231024/1 Quote No. : QT-02257 Order No. : Date Sampled : 16-OCT-2023 Date Received : 24-OCT-2023 Sampled By : CLIENT
Attention : GARY HALL Project Name : Your Client Services Manager : Danny Slee	Phone : 02 9449 0169

Lab Reg No.	Sample Ref	Sample Description
N23/022254	.	EF2-PFAS Filter #1 + EF2-PFAS Front Half rinse #2

Lab Reg No.		N23/022254		
Sample Reference	Units	.		Method
PFAS (per-and poly-fluoroalkyl substances)				
PFBA (375-22-4)	ng	<5		AUT_MET_10
PFPeA (2706-90-3)	ng	<5		AUT_MET_10
PFHxA (307-24-4)	ng	<3		AUT_MET_10
PFHpA (375-85-9)	ng	<3		AUT_MET_10
PFOA (335-67-1)	ng	1.6		AUT_MET_10
PFNA (375-95-1)	ng	<1		AUT_MET_10
PFDA (335-76-2)	ng	<2		AUT_MET_10
PFUdA (2058-94-8)	ng	2.2		AUT_MET_10
PFDaA (307-55-1)	ng	1.9		AUT_MET_10
PFTTrDA (72629-94-8)	ng	1.4		AUT_MET_10
PFTeDA (376-06-7)	ng	1.3		AUT_MET_10
PFBS (375-73-5)	ng	<1		AUT_MET_10
PFPeS (2706-91-4)	ng	<1		AUT_MET_10
PFHxS (355-46-4)	ng	<0.5		AUT_MET_10
PFHpS (375-92-8)	ng	<1		AUT_MET_10
PFOS (1763-23-1)	ng	<0.5		AUT_MET_10
PFNS (68259-12-1)	ng	<1		AUT_MET_10
PFDS (335-77-3)	ng	<0.5		AUT_MET_10
PFDoS (79780-39-5)	ng	<0.5		AUT_MET_10
PFOSA (754-91-6)	ng	<0.5		AUT_MET_10
N-MeFOSAA (2355-31-9)	ng	<0.5		AUT_MET_10
N-EtFOSAA(2991-50-6)	ng	<0.5		AUT_MET_10
4:2 FTS (757124-72-4)	ng	<5		AUT_MET_10
6:2 FTS (27619-97-2)	ng	<5		AUT_MET_10
8:2 FTS (39108-34-4)	ng	<5		AUT_MET_10
10:2 FTS (120226-60-0)	ng	<5		AUT_MET_10
ADONA (919005-14-4)	ng	<0.5		AUT_MET_10
HFPO-DA (13252-13-6)	ng	<0.5		AUT_MET_10
9CI-PF3ONS (756426-58-1)	ng	<0.5		AUT_MET_10

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Lab Reg No.		N23/022254		
Sample Reference		.		
	Units			Method
PFAS (per- and poly-fluoroalkyl substances)				
11CI-PF3OUdS (83329-89-9)	ng	<0.5		AUT_MET_10
Pre-extraction standards				
13C4 PFBA	%	61		AUT_MET_10
13C5 PFPeA	%	56		AUT_MET_10
13C5 PFHxA	%	64		AUT_MET_10
13C4 PFHpA	%	50		AUT_MET_10
13C8 PFOA	%	61		AUT_MET_10
13C9 PFNA	%	59		AUT_MET_10
13C6 PFDA	%	60		AUT_MET_10
13C4 PFUnDA	%	57		AUT_MET_10
13C2 PFDODA	%	57		AUT_MET_10
13C2 PFTeDA	%	46		AUT_MET_10
13C3 PFBS	%	62		AUT_MET_10
13C3 PFHxS	%	63		AUT_MET_10
13C8 PFOS	%	66		AUT_MET_10
13C8 PFOSA	%	50		AUT_MET_10
d3 N-MeFOSAA	%	51		AUT_MET_10
d5 N-EtFOSAA	%	49		AUT_MET_10
13C2 4:2FTS	%	45		AUT_MET_10
13C2 6:2FTS	%	42		AUT_MET_10
13C2 8:2FTS	%	36		AUT_MET_10
13C3 HFPO-DA	%	53		AUT_MET_10



Gavin Stevenson, Analyst
Australian Ultra Trace Laboratory

01-DEC-2023

PFHxS and PFOS were quantified using combined branched and linear standards, for all PFAS linear and branched isomers in samples are totalled for reporting.

Emission samples are reported as 4 fractions, sum the fractions to get total PFAS of the sampling event.

Results relate only to the sample(s) as received and tested.

* Denotes the analyte or test method is not within our ISO/IEC 17025 scope of accreditation.

Measurement Uncertainty is available upon request.

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National Measurement Institute



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Report No. RN1412613

Client	: AIR NOISE ENVIRONMENT 11/35 INGLESTON ROAD WAKERLEY QLD 4154	Job No.	: AIRN01/231024/1
		Quote No.	: QT-02257
		Order No.	:
		Date Sampled	: 16-OCT-2023
		Date Received	: 24-OCT-2023
Attention	: GARY HALL	Sampled By	: CLIENT
Project Name	:		
Your Client Services Manager	: Danny Slee	Phone	: 02 9449 0169

Lab Reg No.	Sample Ref	Sample Description
N23/022247	AUT231011K	Blank-PFAS Main Trap #3 + Blank-PFAS Back Half rinse #4

Lab Reg No.		N23/022247		
Sample Reference		AUT231011K		
	Units			Method
Components				
Cartridge Preparation Charge		Resin Prep		
PFAS (per-and poly-fluoroalkyl substances)				
PFBA (375-22-4)	ng	<5		AUT_MET_10
PFPaA (2706-90-3)	ng	<5		AUT_MET_10
PFHxA (307-24-4)	ng	<1		AUT_MET_10
PFHpA (375-85-9)	ng	<2		AUT_MET_10
PFOA (335-67-1)	ng	<1		AUT_MET_10
PFNA (375-95-1)	ng	<2		AUT_MET_10
PFDA (335-76-2)	ng	<2		AUT_MET_10
PFUdA (2058-94-8)	ng	<3		AUT_MET_10
PFDoA (307-55-1)	ng	<2		AUT_MET_10
PFTTrDA (72629-94-8)	ng	<2		AUT_MET_10
PFTeDA (376-06-7)	ng	<10		AUT_MET_10
PFBS (375-73-5)	ng	<0.2		AUT_MET_10
PFPaS (2706-91-4)	ng	<0.4		AUT_MET_10
PFHxS (355-46-4)	ng	<0.2		AUT_MET_10
PFHpS (375-92-8)	ng	<0.1		AUT_MET_10
PFOS (1763-23-1)	ng	<0.3		AUT_MET_10
PFNS (68259-12-1)	ng	<0.2		AUT_MET_10
PFDS (335-77-3)	ng	<0.2		AUT_MET_10
PFDoS (79780-39-5)	ng	<0.2		AUT_MET_10
PFOSA (754-91-6)	ng	<0.5		AUT_MET_10
N-MeFOSAA (2355-31-9)	ng	<0.5		AUT_MET_10
N-EtFOSAA(2991-50-6)	ng	<0.5		AUT_MET_10
4:2 FTS (757124-72-4)	ng	<0.5		AUT_MET_10
6:2 FTS (27619-97-2)	ng	<0.5		AUT_MET_10
8:2 FTS (39108-34-4)	ng	<0.5		AUT_MET_10
10:2 FTS (120226-60-0)	ng	<0.4		AUT_MET_10
ADONA (919005-14-4)	ng	<0.1		AUT_MET_10

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Lab Reg No.		N23/022247		
Sample Reference		AUT231011K		
	Units			Method
PFAS (per- and poly-fluoroalkyl substances)				
HFPO-DA (13252-13-6)	ng	<0.1		AUT_MET_10
9CI-PF3ONS (756426-58-1)	ng	<0.1		AUT_MET_10
11CI-PF3OUdS (83329-89-9)	ng	<0.1		AUT_MET_10
Pre-extraction standards				
13C4 PFBA	%	82		AUT_MET_10
13C5 PFPeA	%	77		AUT_MET_10
13C5 PFHxA	%	76		AUT_MET_10
13C4 PFHpA	%	77		AUT_MET_10
13C8 PFOA	%	72		AUT_MET_10
13C9 PFNA	%	68		AUT_MET_10
13C6 PFDA	%	64		AUT_MET_10
13C4 PFUnDA	%	55		AUT_MET_10
13C2 PFDODA	%	53		AUT_MET_10
13C2 PFTeDA	%	53		AUT_MET_10
13C3 PFBS	%	75		AUT_MET_10
13C3 PFHxS	%	72		AUT_MET_10
13C8 PFOS	%	71		AUT_MET_10
13C8 PFOSA	%	30		AUT_MET_10
d3 N-MeFOSAA	%	70		AUT_MET_10
d5 N-EtFOSAA	%	83		AUT_MET_10
13C2 4:2FTS	%	74		AUT_MET_10
13C2 6:2FTS	%	88		AUT_MET_10
13C2 8:2FTS	%	74		AUT_MET_10
13C3 HFPO-DA	%	56		AUT_MET_10



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Australian Ultra Trace Laboratory

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Client : AIR NOISE ENVIRONMENT 11/35 INGLESTON ROAD WAKERLEY QLD 4154	Job No. : AIRN01/231024/1 Quote No. : QT-02257 Order No. : Date Sampled : 16-OCT-2023 Date Received : 24-OCT-2023 Sampled By : CLIENT
Attention : GARY HALL Project Name : Your Client Services Manager : Danny Slee	Phone : 02 9449 0169

Lab Reg No.	Sample Ref	Sample Description
N23/022249	AUT231011F	Blank-PFAS Breakthrough trap #7

Lab Reg No.	Sample Reference	Units	N23/022249 AUT231011F	Method
Components				
Cartridge Preparation Charge			Resin Prep	
PFAS (per-and poly-fluoroalkyl substances)				
PFBA (375-22-4)	ng	<5		AUT_MET_10
PFPeA (2706-90-3)	ng	<5		AUT_MET_10
PFHxA (307-24-4)	ng	<1		AUT_MET_10
PFHpA (375-85-9)	ng	<2		AUT_MET_10
PFOA (335-67-1)	ng	<1		AUT_MET_10
PFNA (375-95-1)	ng	<2		AUT_MET_10
PFDA (335-76-2)	ng	<2		AUT_MET_10
PFUdA (2058-94-8)	ng	<3		AUT_MET_10
PFDoA (307-55-1)	ng	<2		AUT_MET_10
PFTTrDA (72629-94-8)	ng	<2		AUT_MET_10
PFTeDA (376-06-7)	ng	<10		AUT_MET_10
PFBS (375-73-5)	ng	<0.2		AUT_MET_10
PFPeS (2706-91-4)	ng	<0.4		AUT_MET_10
PFHxS (355-46-4)	ng	<0.2		AUT_MET_10
PFHpS (375-92-8)	ng	<0.1		AUT_MET_10
PFOS (1763-23-1)	ng	<0.3		AUT_MET_10
PFNS (68259-12-1)	ng	<0.2		AUT_MET_10
PFDS (335-77-3)	ng	<0.2		AUT_MET_10
PFDoS (79780-39-5)	ng	<0.2		AUT_MET_10
PFOSA (754-91-6)	ng	<0.5		AUT_MET_10
N-MeFOSAA (2355-31-9)	ng	<0.5		AUT_MET_10
N-EtFOSAA(2991-50-6)	ng	<0.5		AUT_MET_10
4:2 FTS (757124-72-4)	ng	<0.5		AUT_MET_10
6:2 FTS (27619-97-2)	ng	<0.5		AUT_MET_10
8:2 FTS (39108-34-4)	ng	<0.5		AUT_MET_10
10:2 FTS (120226-60-0)	ng	<0.4		AUT_MET_10
ADONA (919005-14-4)	ng	<0.1		AUT_MET_10
HFPO-DA (13252-13-6)	ng	<0.1		AUT_MET_10

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Lab Reg No.		N23/022249		
Sample Reference		AUT231011F		
	Units			Method
PFAS (per- and poly-fluoroalkyl substances)				
9CI-PF3ONS (756426-58-1)	ng	<0.1		AUT_MET_10
11CI-PF3OUdS (83329-89-9)	ng	<0.1		AUT_MET_10
Pre-extraction standards				
13C4 PFBA	%	85		AUT_MET_10
13C5 PFPeA	%	81		AUT_MET_10
13C5 PFHxA	%	87		AUT_MET_10
13C4 PFHpA	%	90		AUT_MET_10
13C8 PFOA	%	77		AUT_MET_10
13C9 PFNA	%	65		AUT_MET_10
13C6 PFDA	%	58		AUT_MET_10
13C4 PFUnDA	%	45		AUT_MET_10
13C2 PFDODA	%	31		AUT_MET_10
13C2 PFTeDA	%	6		AUT_MET_10
13C3 PFBS	%	78		AUT_MET_10
13C3 PFHxS	%	91		AUT_MET_10
13C8 PFOS	%	69		AUT_MET_10
13C8 PFOSA	%	15		AUT_MET_10
d3 N-MeFOSAA	%	63		AUT_MET_10
d5 N-EtFOSAA	%	68		AUT_MET_10
13C2 4:2FTS	%	92		AUT_MET_10
13C2 6:2FTS	%	103		AUT_MET_10
13C2 8:2FTS	%	79		AUT_MET_10
13C3 HFPO-DA	%	57		AUT_MET_10



Gavin Stevenson, Analyst
Australian Ultra Trace Laboratory

01-DEC-2023

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Client : AIR NOISE ENVIRONMENT 11/35 INGLESTON ROAD WAKERLEY QLD 4154	Job No. : AIRN01/231024/1 Quote No. : QT-02257 Order No. : Date Sampled : 16-OCT-2023 Date Received : 24-OCT-2023 Sampled By : CLIENT
Attention : GARY HALL Project Name : Your Client Services Manager : Danny Slee	Phone : 02 9449 0169

Lab Reg No.	Sample Ref	Sample Description
N23/022251	AUT231011A	EF1-PFAS Main Trap #3 + EF1-PFAS Back Half rinse #4

Lab Reg No.	Sample Reference	Units	N23/022251 AUT231011A	Method
Components				
Cartridge Preparation Charge			Resin Prep	
PFAS (per-and poly-fluoroalkyl substances)				
PFBA (375-22-4)	ng	<5		AUT_MET_10
PFPeA (2706-90-3)	ng	<5		AUT_MET_10
PFHxA (307-24-4)	ng	<1		AUT_MET_10
PFHpA (375-85-9)	ng	<2		AUT_MET_10
PFOA (335-67-1)	ng	<1		AUT_MET_10
PFNA (375-95-1)	ng	<2		AUT_MET_10
PFDA (335-76-2)	ng	<2		AUT_MET_10
PFUdA (2058-94-8)	ng	<3		AUT_MET_10
PFDaA (307-55-1)	ng	<2		AUT_MET_10
PFTTrDA (72629-94-8)	ng	<2		AUT_MET_10
PFTeDA (376-06-7)	ng	<10		AUT_MET_10
PFBS (375-73-5)	ng	0.44		AUT_MET_10
PFPeS (2706-91-4)	ng	<0.4		AUT_MET_10
PFHxS (355-46-4)	ng	<0.2		AUT_MET_10
PFHpS (375-92-8)	ng	<0.1		AUT_MET_10
PFOS (1763-23-1)	ng	0.47		AUT_MET_10
PFNS (68259-12-1)	ng	<0.2		AUT_MET_10
PFDS (335-77-3)	ng	<0.2		AUT_MET_10
PFDoS (79780-39-5)	ng	<0.2		AUT_MET_10
PFOSA (754-91-6)	ng	<0.5		AUT_MET_10
N-MeFOSAA (2355-31-9)	ng	<0.5		AUT_MET_10
N-EtFOSAA(2991-50-6)	ng	<0.5		AUT_MET_10
4:2 FTS (757124-72-4)	ng	<0.5		AUT_MET_10
6:2 FTS (27619-97-2)	ng	0.75		AUT_MET_10
8:2 FTS (39108-34-4)	ng	<0.5		AUT_MET_10
10:2 FTS (120226-60-0)	ng	<0.4		AUT_MET_10
ADONA (919005-14-4)	ng	<0.1		AUT_MET_10

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Lab Reg No.		N23/022251		
Sample Reference		AUT231011A		
	Units			Method
PFAS (per- and poly-fluoroalkyl substances)				
HFPO-DA (13252-13-6)	ng	<0.1		AUT_MET_10
9CI-PF3ONS (756426-58-1)	ng	<0.1		AUT_MET_10
11CI-PF3OUdS (83329-89-9)	ng	<0.1		AUT_MET_10
Pre-extraction standards				
13C4 PFBA	%	81		AUT_MET_10
13C5 PFPeA	%	77		AUT_MET_10
13C5 PFHxA	%	84		AUT_MET_10
13C4 PFHpA	%	90		AUT_MET_10
13C8 PFOA	%	69		AUT_MET_10
13C9 PFNA	%	60		AUT_MET_10
13C6 PFDA	%	50		AUT_MET_10
13C4 PFUnDA	%	39		AUT_MET_10
13C2 PFDODA	%	26		AUT_MET_10
13C2 PFTeDA	%	3		AUT_MET_10
13C3 PFBS	%	65		AUT_MET_10
13C3 PFHxS	%	65		AUT_MET_10
13C8 PFOS	%	57		AUT_MET_10
13C8 PFOSA	%	25		AUT_MET_10
d3 N-MeFOSAA	%	59		AUT_MET_10
d5 N-EtFOSAA	%	53		AUT_MET_10
13C2 4:2FTS	%	92		AUT_MET_10
13C2 6:2FTS	%	102		AUT_MET_10
13C2 8:2FTS	%	69		AUT_MET_10
13C3 HFPO-DA	%	55		AUT_MET_10



Gavin Stevenson, Analyst
Australian Ultra Trace Laboratory

01-DEC-2023

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Client : AIR NOISE ENVIRONMENT 11/35 INGLESTON ROAD WAKERLEY QLD 4154	Job No. : AIRN01/231024/1 Quote No. : QT-02257 Order No. : Date Sampled : 16-OCT-2023 Date Received : 24-OCT-2023 Sampled By : CLIENT
Attention : GARY HALL Project Name : Your Client Services Manager : Danny Slee	Phone : 02 9449 0169

Lab Reg No.	Sample Ref	Sample Description
N23/022253	AUT231011L	EF1-PFAS Breakthrough trap #7

Lab Reg No.	Sample Reference	Units	N23/022253 AUT231011L	Method
Components				
Cartridge Preparation Charge			Resin Prep	
PFAS (per-and poly-fluoroalkyl substances)				
PFBA (375-22-4)	ng	<5		AUT_MET_10
PFPeA (2706-90-3)	ng	<5		AUT_MET_10
PFHxA (307-24-4)	ng	<1		AUT_MET_10
PFHpA (375-85-9)	ng	<2		AUT_MET_10
PFOA (335-67-1)	ng	1.8		AUT_MET_10
PFNA (375-95-1)	ng	<2		AUT_MET_10
PFDA (335-76-2)	ng	<2		AUT_MET_10
PFUdA (2058-94-8)	ng	<3		AUT_MET_10
PFDoA (307-55-1)	ng	<2		AUT_MET_10
PFTTrDA (72629-94-8)	ng	<2		AUT_MET_10
PFTeDA (376-06-7)	ng	<10		AUT_MET_10
PFBS (375-73-5)	ng	0.21		AUT_MET_10
PFPeS (2706-91-4)	ng	<0.4		AUT_MET_10
PFHxS (355-46-4)	ng	<0.2		AUT_MET_10
PFHpS (375-92-8)	ng	<0.1		AUT_MET_10
PFOS (1763-23-1)	ng	<0.3		AUT_MET_10
PFNS (68259-12-1)	ng	<0.2		AUT_MET_10
PFDS (335-77-3)	ng	<0.2		AUT_MET_10
PFDoS (79780-39-5)	ng	<0.2		AUT_MET_10
PFOSA (754-91-6)	ng	<0.5		AUT_MET_10
N-MeFOSAA (2355-31-9)	ng	<0.5		AUT_MET_10
N-EtFOSAA(2991-50-6)	ng	<0.5		AUT_MET_10
4:2 FTS (757124-72-4)	ng	<0.5		AUT_MET_10
6:2 FTS (27619-97-2)	ng	<0.5		AUT_MET_10
8:2 FTS (39108-34-4)	ng	<0.5		AUT_MET_10
10:2 FTS (120226-60-0)	ng	<0.4		AUT_MET_10
ADONA (919005-14-4)	ng	<0.1		AUT_MET_10
HFPO-DA (13252-13-6)	ng	<0.1		AUT_MET_10

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Lab Reg No.		N23/022253		
Sample Reference		AUT231011L		
	Units			Method
PFAS (per- and poly-fluoroalkyl substances)				
9CI-PF3ONS (756426-58-1)	ng	<0.1		AUT_MET_10
11CI-PF3OUdS (83329-89-9)	ng	<0.1		AUT_MET_10
Pre-extraction standards				
13C4 PFBA	%	83		AUT_MET_10
13C5 PFPeA	%	77		AUT_MET_10
13C5 PFHxA	%	70		AUT_MET_10
13C4 PFHpA	%	66		AUT_MET_10
13C8 PFOA	%	59		AUT_MET_10
13C9 PFNA	%	53		AUT_MET_10
13C6 PFDA	%	44		AUT_MET_10
13C4 PFUnDA	%	37		AUT_MET_10
13C2 PFDODA	%	31		AUT_MET_10
13C2 PFTeDA	%	11		AUT_MET_10
13C3 PFBS	%	62		AUT_MET_10
13C3 PFHxS	%	51		AUT_MET_10
13C8 PFOS	%	47		AUT_MET_10
13C8 PFOSA	%	25		AUT_MET_10
d3 N-MeFOSAA	%	53		AUT_MET_10
d5 N-EtFOSAA	%	55		AUT_MET_10
13C2 4:2FTS	%	84		AUT_MET_10
13C2 6:2FTS	%	80		AUT_MET_10
13C2 8:2FTS	%	60		AUT_MET_10
13C3 HFPO-DA	%	52		AUT_MET_10



Gavin Stevenson, Analyst
Australian Ultra Trace Laboratory

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Client : AIR NOISE ENVIRONMENT 11/35 INGLESTON ROAD WAKERLEY QLD 4154	Job No. : AIRN01/231024/1 Quote No. : QT-02257 Order No. : Date Sampled : 16-OCT-2023 Date Received : 24-OCT-2023 Sampled By : CLIENT
Attention : GARY HALL Project Name : Your Client Services Manager : Danny Slee	Phone : 02 9449 0169

Lab Reg No.	Sample Ref	Sample Description
N23/022255	AUT231011E	EF2-PFAS Main Trap #3 + EF2-PFAS Back Half rinse #4

Lab Reg No.		N23/022255		
Sample Reference		AUT231011E		
	Units			Method
Components				
Cartridge Preparation Charge		Resin Prep		
PFAS (per-and poly-fluoroalkyl substances)				
PFBA (375-22-4)	ng	19		AUT_MET_10
PFPeA (2706-90-3)	ng	<5		AUT_MET_10
PFHxA (307-24-4)	ng	<1		AUT_MET_10
PFHpA (375-85-9)	ng	2.1		AUT_MET_10
PFOA (335-67-1)	ng	1.7		AUT_MET_10
PFNA (375-95-1)	ng	<2		AUT_MET_10
PFDA (335-76-2)	ng	<2		AUT_MET_10
PFUdA (2058-94-8)	ng	<3		AUT_MET_10
PFDaA (307-55-1)	ng	<2		AUT_MET_10
PFTTrDA (72629-94-8)	ng	<2		AUT_MET_10
PFTeDA (376-06-7)	ng	<10		AUT_MET_10
PFBS (375-73-5)	ng	0.45		AUT_MET_10
PFPeS (2706-91-4)	ng	<0.4		AUT_MET_10
PFHxS (355-46-4)	ng	0.49		AUT_MET_10
PFHpS (375-92-8)	ng	<0.1		AUT_MET_10
PFOS (1763-23-1)	ng	0.74		AUT_MET_10
PFNS (68259-12-1)	ng	<0.2		AUT_MET_10
PFDS (335-77-3)	ng	<0.2		AUT_MET_10
PFDoS (79780-39-5)	ng	<0.2		AUT_MET_10
PFOSA (754-91-6)	ng	<0.5		AUT_MET_10
N-MeFOSAA (2355-31-9)	ng	<0.5		AUT_MET_10
N-EtFOSAA(2991-50-6)	ng	<0.5		AUT_MET_10
4:2 FTS (757124-72-4)	ng	<0.5		AUT_MET_10
6:2 FTS (27619-97-2)	ng	0.71		AUT_MET_10
8:2 FTS (39108-34-4)	ng	<0.5		AUT_MET_10
10:2 FTS (120226-60-0)	ng	<0.4		AUT_MET_10
ADONA (919005-14-4)	ng	<0.1		AUT_MET_10

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Lab Reg No.		N23/022255		
Sample Reference		AUT231011E		
	Units			Method
PFAS (per- and poly-fluoroalkyl substances)				
HFPO-DA (13252-13-6)	ng	<0.1		AUT_MET_10
9CI-PF3ONS (756426-58-1)	ng	<0.1		AUT_MET_10
11CI-PF3OUdS (83329-89-9)	ng	<0.1		AUT_MET_10
Pre-extraction standards				
13C4 PFBA	%	75		AUT_MET_10
13C5 PFPeA	%	72		AUT_MET_10
13C5 PFHxA	%	72		AUT_MET_10
13C4 PFHpA	%	72		AUT_MET_10
13C8 PFOA	%	70		AUT_MET_10
13C9 PFNA	%	64		AUT_MET_10
13C6 PFDA	%	54		AUT_MET_10
13C4 PFUnDA	%	53		AUT_MET_10
13C2 PFDODA	%	43		AUT_MET_10
13C2 PFTeDA	%	21		AUT_MET_10
13C3 PFBS	%	84		AUT_MET_10
13C3 PFHxS	%	71		AUT_MET_10
13C8 PFOS	%	67		AUT_MET_10
13C8 PFOSA	%	36		AUT_MET_10
d3 N-MeFOSAA	%	53		AUT_MET_10
d5 N-EtFOSAA	%	59		AUT_MET_10
13C2 4:2FTS	%	56		AUT_MET_10
13C2 6:2FTS	%	49		AUT_MET_10
13C2 8:2FTS	%	46		AUT_MET_10
13C3 HFPO-DA	%	63		AUT_MET_10



Gavin Stevenson, Analyst
Australian Ultra Trace Laboratory

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Client : AIR NOISE ENVIRONMENT 11/35 INGLESTON ROAD WAKERLEY QLD 4154	Job No. : AIRN01/231024/1 Quote No. : QT-02257 Order No. : Date Sampled : 16-OCT-2023 Date Received : 24-OCT-2023 Sampled By : CLIENT
Attention : GARY HALL Project Name : Your Client Services Manager : Danny Slee	Phone : 02 9449 0169

Lab Reg No.	Sample Ref	Sample Description
N23/022257	AUT231011D	EF2-PFAS Breakthrough trap #7

Lab Reg No.		N23/022257		
Sample Reference		AUT231011D		
	Units			Method
Components				
Cartridge Preparation Charge		Resin Prep		
PFAS (per-and poly-fluoroalkyl substances)				
PFBA (375-22-4)	ng	16		AUT_MET_10
PFPeA (2706-90-3)	ng	<5		AUT_MET_10
PFHxA (307-24-4)	ng	<1		AUT_MET_10
PFHpA (375-85-9)	ng	<2		AUT_MET_10
PFOA (335-67-1)	ng	1.3		AUT_MET_10
PFNA (375-95-1)	ng	<2		AUT_MET_10
PFDA (335-76-2)	ng	<2		AUT_MET_10
PFUdA (2058-94-8)	ng	<3		AUT_MET_10
PFDoA (307-55-1)	ng	<2		AUT_MET_10
PFTTrDA (72629-94-8)	ng	<2		AUT_MET_10
PFTeDA (376-06-7)	ng	<10		AUT_MET_10
PFBS (375-73-5)	ng	0.26		AUT_MET_10
PFPeS (2706-91-4)	ng	<0.4		AUT_MET_10
PFHxS (355-46-4)	ng	<0.2		AUT_MET_10
PFHpS (375-92-8)	ng	<0.1		AUT_MET_10
PFOS (1763-23-1)	ng	0.33		AUT_MET_10
PFNS (68259-12-1)	ng	<0.2		AUT_MET_10
PFDS (335-77-3)	ng	<0.2		AUT_MET_10
PFDoS (79780-39-5)	ng	<0.2		AUT_MET_10
PFOSA (754-91-6)	ng	<0.5		AUT_MET_10
N-MeFOSAA (2355-31-9)	ng	<0.5		AUT_MET_10
N-EtFOSAA(2991-50-6)	ng	<0.5		AUT_MET_10
4:2 FTS (757124-72-4)	ng	<0.5		AUT_MET_10
6:2 FTS (27619-97-2)	ng	<0.5		AUT_MET_10
8:2 FTS (39108-34-4)	ng	<0.5		AUT_MET_10
10:2 FTS (120226-60-0)	ng	<0.4		AUT_MET_10
ADONA (919005-14-4)	ng	<0.1		AUT_MET_10
HFPO-DA (13252-13-6)	ng	<0.1		AUT_MET_10

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Lab Reg No.		N23/022257		
Sample Reference		AUT231011D		
	Units			Method
PFAS (per- and poly-fluoroalkyl substances)				
9CI-PF3ONS (756426-58-1)	ng	<0.1		AUT_MET_10
11CI-PF3OUdS (83329-89-9)	ng	<0.1		AUT_MET_10
Pre-extraction standards				
13C4 PFBA	%	75		AUT_MET_10
13C5 PFPeA	%	72		AUT_MET_10
13C5 PFHxA	%	69		AUT_MET_10
13C4 PFHpA	%	63		AUT_MET_10
13C8 PFOA	%	62		AUT_MET_10
13C9 PFNA	%	46		AUT_MET_10
13C6 PFDA	%	46		AUT_MET_10
13C4 PFUnDA	%	38		AUT_MET_10
13C2 PFDoDA	%	34		AUT_MET_10
13C2 PFTeDA	%	22		AUT_MET_10
13C3 PFBS	%	79		AUT_MET_10
13C3 PFHxS	%	71		AUT_MET_10
13C8 PFOS	%	44		AUT_MET_10
13C8 PFOSA	%	32		AUT_MET_10
d3 N-MeFOSAA	%	37		AUT_MET_10
d5 N-EtFOSAA	%	44		AUT_MET_10
13C2 4:2FTS	%	35		AUT_MET_10
13C2 6:2FTS	%	38		AUT_MET_10
13C2 8:2FTS	%	32		AUT_MET_10
13C3 HFPO-DA	%	64		AUT_MET_10



Gavin Stevenson, Analyst
Australian Ultra Trace Laboratory

01-DEC-2023

PFHxS and PFOS were quantified using combined branched and linear standards, for all PFAS linear and branched isomers in samples are totalled for reporting.

Emission samples are reported as 4 fractions, sum the fractions to get total PFAS of the sampling event.

Results relate only to the sample(s) as received and tested.

* Denotes the analyte or test method is not within our ISO/IEC 17025 scope of accreditation.

105 Delhi Road, North Ryde NSW 2113 Tel: +61 2 9449 0111 Web: industry.gov.au/measurement

National Measurement Institute



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Report No. RN1412616

Client	: AIR NOISE ENVIRONMENT 11/35 INGLESTON ROAD WAKERLEY QLD 4154	Job No.	: AIRN01/231024/1
		Quote No.	: QT-02257
		Order No.	:
		Date Sampled	: 16-OCT-2023
		Date Received	: 24-OCT-2023
Attention	: GARY HALL	Sampled By	: CLIENT
Project Name	:		
Your Client Services Manager	: Danny Slee	Phone	: 02 9449 0169

Lab Reg No.	Sample Ref	Sample Description
N23/022248	.	Blank-PFAS Impingers #5 + Blank-PFAS Impinger rinse #6

Lab Reg No.		N23/022248		
Sample Reference	Units	.		Method
PFAS (per-and poly-fluoroalkyl substances)				
PFBA (375-22-4)	ng	<2		AUT_MET_10
PFPaA (2706-90-3)	ng	<2		AUT_MET_10
PFHxA (307-24-4)	ng	<0.8		AUT_MET_10
PFHpA (375-85-9)	ng	<0.8		AUT_MET_10
PFOA (335-67-1)	ng	<0.2		AUT_MET_10
PFNA (375-95-1)	ng	<0.2		AUT_MET_10
PFDA (335-76-2)	ng	<1		AUT_MET_10
PFUdA (2058-94-8)	ng	<1		AUT_MET_10
PFDaA (307-55-1)	ng	<2		AUT_MET_10
PFTTrDA (72629-94-8)	ng	<2		AUT_MET_10
PFTeDA (376-06-7)	ng	<5		AUT_MET_10
PFBS (375-73-5)	ng	<2		AUT_MET_10
PFPaS (2706-91-4)	ng	<0.8		AUT_MET_10
PFHxS (355-46-4)	ng	<0.2		AUT_MET_10
PFHpS (375-92-8)	ng	<0.2		AUT_MET_10
PFOS (1763-23-1)	ng	<0.2		AUT_MET_10
PFNS (68259-12-1)	ng	<0.2		AUT_MET_10
PFDS (335-77-3)	ng	<0.2		AUT_MET_10
PFDoS (79780-39-5)	ng	<0.2		AUT_MET_10
N-MeFOSAA (2355-31-9)	ng	<0.2		AUT_MET_10
N-EtFOSAA(2991-50-6)	ng	<0.2		AUT_MET_10
N-EtFOSE (1691-99-2)	ng	Not Tested		AUT_MET_10
4:2 FTS (757124-72-4)	ng	<0.5		AUT_MET_10
6:2 FTS (27619-97-2)	ng	<0.2		AUT_MET_10
8:2 FTS (39108-34-4)	ng	<0.5		AUT_MET_10
10:2 FTS (120226-60-0)	ng	<0.8		AUT_MET_10
ADONA (919005-14-4)	ng	<0.2		AUT_MET_10
HFPO-DA (13252-13-6)	ng	<0.2		AUT_MET_10
9CI-PF3ONS (756426-58-1)	ng	<0.2		AUT_MET_10

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Lab Reg No.		N23/022248		
Sample Reference		.		
	Units			Method
PFAS (per-and poly-fluoroalkyl substances)				
11CI-PF3OUdS (83329-89-9)	ng	<0.2		AUT_MET_10
Pre-extraction standards				
13C4 PFBA	%	14		AUT_MET_10
13C5 PFPeA	%	58		AUT_MET_10
13C5 PFHxA	%	88		AUT_MET_10
13C4 PFHpA	%	113		AUT_MET_10
13C8 PFOA	%	105		AUT_MET_10
13C9 PFNA	%	98		AUT_MET_10
13C6 PFDA	%	102		AUT_MET_10
13C4 PFUnDA	%	85		AUT_MET_10
13C2 PFDoDA	%	58		AUT_MET_10
13C2 PFTeDA	%	12		AUT_MET_10
13C3 PFBS	%	90		AUT_MET_10
13C3 PFHxS	%	101		AUT_MET_10
13C8 PFOS	%	99		AUT_MET_10
d3 N-MeFOSAA	%	156		AUT_MET_10
d5 N-EtFOSAA	%	128		AUT_MET_10
13C2 4:2FTS	%	131		AUT_MET_10
13C2 6:2FTS	%	146		AUT_MET_10
13C2 8:2FTS	%	125		AUT_MET_10
13C3 HFPO-DA	%	77		AUT_MET_10

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Client : AIR NOISE ENVIRONMENT 11/35 INGLESTON ROAD WAKERLEY QLD 4154	Job No. : AIRN01/231024/1 Quote No. : QT-02257 Order No. : Date Sampled : 16-OCT-2023 Date Received : 24-OCT-2023 Sampled By : CLIENT
Attention : GARY HALL Project Name : Your Client Services Manager : Danny Slee	Phone : 02 9449 0169

Lab Reg No.	Sample Ref	Sample Description
N23/022252	.	EF1-PFAS Impingers #5 + EF1-PFAS Impinger rinse #6

Lab Reg No.		N23/022252		
Sample Reference	Units	.		Method
PFAS (per-and poly-fluoroalkyl substances)				
PFBA (375-22-4)	ng	<2		AUT_MET_10
PFPeA (2706-90-3)	ng	<2		AUT_MET_10
PFHxA (307-24-4)	ng	<0.8		AUT_MET_10
PFHpA (375-85-9)	ng	<0.8		AUT_MET_10
PFOA (335-67-1)	ng	4.6		AUT_MET_10
PFNA (375-95-1)	ng	<0.2		AUT_MET_10
PFDA (335-76-2)	ng	<1		AUT_MET_10
PFUdA (2058-94-8)	ng	<1		AUT_MET_10
PFDaA (307-55-1)	ng	<2		AUT_MET_10
PFTTrDA (72629-94-8)	ng	<2		AUT_MET_10
PFTeDA (376-06-7)	ng	<5		AUT_MET_10
PFBS (375-73-5)	ng	<2		AUT_MET_10
PFPeS (2706-91-4)	ng	<0.8		AUT_MET_10
PFHxS (355-46-4)	ng	<0.2		AUT_MET_10
PFHpS (375-92-8)	ng	<0.2		AUT_MET_10
PFOS (1763-23-1)	ng	<0.2		AUT_MET_10
PFNS (68259-12-1)	ng	<0.2		AUT_MET_10
PFDS (335-77-3)	ng	<0.2		AUT_MET_10
PFDoS (79780-39-5)	ng	<0.2		AUT_MET_10
N-MeFOSAA (2355-31-9)	ng	<0.2		AUT_MET_10
N-EtFOSAA(2991-50-6)	ng	<0.2		AUT_MET_10
N-EtFOSE (1691-99-2)	ng	Not Tested		AUT_MET_10
4:2 FTS (757124-72-4)	ng	<0.5		AUT_MET_10
6:2 FTS (27619-97-2)	ng	0.3		AUT_MET_10
8:2 FTS (39108-34-4)	ng	<0.5		AUT_MET_10
10:2 FTS (120226-60-0)	ng	<0.8		AUT_MET_10
ADONA (919005-14-4)	ng	<0.2		AUT_MET_10
HFPO-DA (13252-13-6)	ng	<0.2		AUT_MET_10
9CI-PF3ONS (756426-58-1)	ng	<0.2		AUT_MET_10

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Lab Reg No.		N23/022252		
Sample Reference		.		
	Units			Method
PFAS (per-and poly-fluoroalkyl substances)				
11CI-PF3OUdS (83329-89-9)	ng	<0.2		AUT_MET_10
Pre-extraction standards				
13C4 PFBA	%	9		AUT_MET_10
13C5 PFPeA	%	91		AUT_MET_10
13C5 PFHxA	%	110		AUT_MET_10
13C4 PFHpA	%	115		AUT_MET_10
13C8 PFOA	%	103		AUT_MET_10
13C9 PFNA	%	103		AUT_MET_10
13C6 PFDA	%	97		AUT_MET_10
13C4 PFUnDA	%	81		AUT_MET_10
13C2 PFDoDA	%	58		AUT_MET_10
13C2 PFTeDA	%	22		AUT_MET_10
13C3 PFBS	%	100		AUT_MET_10
13C3 PFHxS	%	90		AUT_MET_10
13C8 PFOS	%	90		AUT_MET_10
d3 N-MeFOSAA	%	111		AUT_MET_10
d5 N-EtFOSAA	%	111		AUT_MET_10
13C2 4:2FTS	%	103		AUT_MET_10
13C2 6:2FTS	%	118		AUT_MET_10
13C2 8:2FTS	%	101		AUT_MET_10
13C3 HFPO-DA	%	82		AUT_MET_10

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Client : AIR NOISE ENVIRONMENT 11/35 INGLESTON ROAD WAKERLEY QLD 4154	Job No. : AIRN01/231024/1 Quote No. : QT-02257 Order No. : Date Sampled : 16-OCT-2023 Date Received : 24-OCT-2023 Sampled By : CLIENT
Attention : GARY HALL Project Name : Your Client Services Manager : Danny Slee	Phone : 02 9449 0169

Lab Reg No.	Sample Ref	Sample Description
N23/022256	.	EF2-PFAS Impingers #5 + EF2-PFAS Impinger rinse #6

Lab Reg No.		N23/022256		
Sample Reference	Units	.		Method
PFAS (per-and poly-fluoroalkyl substances)				
PFBA (375-22-4)	ng	2.8		AUT_MET_10
PFPeA (2706-90-3)	ng	<2		AUT_MET_10
PFHxA (307-24-4)	ng	<0.8		AUT_MET_10
PFHpA (375-85-9)	ng	<0.8		AUT_MET_10
PFOA (335-67-1)	ng	4.7		AUT_MET_10
PFNA (375-95-1)	ng	<0.2		AUT_MET_10
PFDA (335-76-2)	ng	<1		AUT_MET_10
PFUdA (2058-94-8)	ng	<1		AUT_MET_10
PFDoA (307-55-1)	ng	<2		AUT_MET_10
PFTTrDA (72629-94-8)	ng	<2		AUT_MET_10
PFTeDA (376-06-7)	ng	<5		AUT_MET_10
PFBS (375-73-5)	ng	<2		AUT_MET_10
PFPeS (2706-91-4)	ng	<0.8		AUT_MET_10
PFHxS (355-46-4)	ng	<0.2		AUT_MET_10
PFHpS (375-92-8)	ng	<0.2		AUT_MET_10
PFOS (1763-23-1)	ng	<0.2		AUT_MET_10
PFNS (68259-12-1)	ng	<0.2		AUT_MET_10
PFDS (335-77-3)	ng	<0.2		AUT_MET_10
PFDoS (79780-39-5)	ng	<0.2		AUT_MET_10
N-MeFOSAA (2355-31-9)	ng	<0.2		AUT_MET_10
N-EtFOSAA(2991-50-6)	ng	<0.2		AUT_MET_10
N-EtFOSE (1691-99-2)	ng	<4		AUT_MET_10
4:2 FTS (757124-72-4)	ng	<0.5		AUT_MET_10
6:2 FTS (27619-97-2)	ng	<0.2		AUT_MET_10
8:2 FTS (39108-34-4)	ng	<0.5		AUT_MET_10
10:2 FTS (120226-60-0)	ng	<0.8		AUT_MET_10
ADONA (919005-14-4)	ng	<0.2		AUT_MET_10
HFPO-DA (13252-13-6)	ng	<0.2		AUT_MET_10
9CI-PF3ONS (756426-58-1)	ng	<0.2		AUT_MET_10

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Lab Reg No.		N23/022256		
Sample Reference		.		
	Units			Method
PFAS (per-and poly-fluoroalkyl substances)				
11CI-PF3OUdS (83329-89-9)	ng	<0.2		AUT_MET_10
Pre-extraction standards				
13C4 PFBA	%	7		AUT_MET_10
13C5 PFPeA	%	116		AUT_MET_10
13C5 PFHxA	%	123		AUT_MET_10
13C4 PFHpA	%	128		AUT_MET_10
13C8 PFOA	%	104		AUT_MET_10
13C9 PFNA	%	95		AUT_MET_10
13C6 PFDA	%	87		AUT_MET_10
13C4 PFUnDA	%	58		AUT_MET_10
13C2 PFDoDA	%	21		AUT_MET_10
13C2 PFTeDA	%	7		AUT_MET_10
13C3 PFBS	%	106		AUT_MET_10
13C3 PFHxS	%	99		AUT_MET_10
13C8 PFOS	%	86		AUT_MET_10
d3 N-MeFOSAA	%	72		AUT_MET_10
d5 N-EtFOSAA	%	73		AUT_MET_10
13C2 4:2FTS	%	144		AUT_MET_10
13C2 6:2FTS	%	141		AUT_MET_10
13C2 8:2FTS	%	118		AUT_MET_10
13C3 HFPO-DA	%	85		AUT_MET_10



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Client : AIR NOISE ENVIRONMENT 11/35 INGLESTON ROAD WAKERLEY QLD 4154	Job No. : AIRN01/231024/1 Quote No. : QT-02257 Order No. : Date Sampled : 16-OCT-2023 Date Received : 24-OCT-2023 Sampled By : CLIENT
Attention : GARY HALL Project Name : Your Client Services Manager : Danny Slee	Phone : 02 9449 0169

Lab Reg No.	Sample Ref	Sample Description
N23/022258	.	Blank-TOPA Filter #1 + Blank-TOPA Front Half rinse #2
N23/022262	.	EF1-TOPA Filter #1 + EF1-TOPA Front Half rinse #2

Lab Reg No.		N23/022258	N23/022262	
Sample Reference	Units	.	.	Method
Miscellaneous				
Consultation		TOPA treatment	TOPA treatment	

N23/022258

Luke Baker, Analyst
Organics - NSW

06-DEC-2023

Lab Reg No.		N23/022258	N23/022262	
Sample Reference	Units	.	.	Method
PFAS (per-and poly-fluoroalkyl substances)				
PFBA (375-22-4)	ng	< 50	< 50	AUT_MET_10
PFPeA (2706-90-3)	ng	< 50	< 50	AUT_MET_10
PFHxA (307-24-4)	ng	< 30	< 30	AUT_MET_10
PFHpA (375-85-9)	ng	< 30	< 30	AUT_MET_10
PFOA (335-67-1)	ng	< 10	< 10	AUT_MET_10
PFNA (375-95-1)	ng	< 10	< 10	AUT_MET_10
PFDA (335-76-2)	ng	< 20	< 20	AUT_MET_10
PFUdA (2058-94-8)	ng	< 10	< 10	AUT_MET_10
PFDaA (307-55-1)	ng	< 10	< 10	AUT_MET_10
PFTTrDA (72629-94-8)	ng	< 10	< 10	AUT_MET_10

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Lab Reg No.		N23/022258	N23/022262	
Sample Reference	Units			Method
PFAS (per-and poly-fluoroalkyl substances)				
PFTeDA (376-06-7)	ng	< 10	< 10	AUT_MET_10
PFBS (375-73-5)	ng	< 10	< 10	AUT_MET_10
PFPeS (2706-91-4)	ng	< 10	< 10	AUT_MET_10
PFHxS (355-46-4)	ng	< 5	< 5	AUT_MET_10
PFHpS (375-92-8)	ng	< 10	< 10	AUT_MET_10
PFOS (1763-23-1)	ng	< 5	< 5	AUT_MET_10
PFNS (68259-12-1)	ng	< 10	< 10	AUT_MET_10
PFDS (335-77-3)	ng	< 5	< 5	AUT_MET_10
PFDoS (79780-39-5)	ng	< 5	< 5	AUT_MET_10
PFOSA (754-91-6)	ng	< 5	< 5	AUT_MET_10
N-MeFOSAA (2355-31-9)	ng	< 5	< 5	AUT_MET_10
N-EtFOSAA(2991-50-6)	ng	< 5	< 5	AUT_MET_10
4:2 FTS (757124-72-4)	ng	< 50	< 50	AUT_MET_10
6:2 FTS (27619-97-2)	ng	< 50	< 50	AUT_MET_10
8:2 FTS (39108-34-4)	ng	< 50	< 50	AUT_MET_10
10:2 FTS (120226-60-0)	ng	< 50	< 50	AUT_MET_10
ADONA (919005-14-4)	ng	< 5	< 5	AUT_MET_10
HFPO-DA (13252-13-6)	ng	< 5	< 5	AUT_MET_10
9CI-PF3ONS (756426-58-1)	ng	< 5	< 5	AUT_MET_10
11CI-PF3OUdS (83329-89-9)	ng	< 5	< 5	AUT_MET_10
Pre-extraction standards				
13C4 PFBA	%	82	80	AUT_MET_10
13C5 PFPeA	%	87	78	AUT_MET_10
13C5 PFHxA	%	90	86	AUT_MET_10
13C4 PFHpA	%	78	81	AUT_MET_10
13C8 PFOA	%	83	81	AUT_MET_10
13C9 PFNA	%	77	78	AUT_MET_10
13C6 PFDA	%	76	80	AUT_MET_10
13C4 PFUnDA	%	65	72	AUT_MET_10
13C2 PFDoDA	%	59	67	AUT_MET_10
13C2 PFTeDA	%	51	57	AUT_MET_10
13C3 PFBS	%	91	96	AUT_MET_10
13C3 PFHxS	%	88	84	AUT_MET_10
13C8 PFOS	%	79	87	AUT_MET_10
13C8 PFOSA	%	31	39	AUT_MET_10
d3 N-MeFOSAA	%	63	77	AUT_MET_10
d5 N-EtFOSAA	%	81	77	AUT_MET_10
13C2 4:2FTS	%	110	121	AUT_MET_10
13C2 6:2FTS	%	136	160	AUT_MET_10
13C2 8:2FTS	%	89	94	AUT_MET_10
13C3 HFPO-DA	%	63	62	AUT_MET_10
Dates				
Date extracted		8-NOV-2023 00:00	8-NOV-2023 00:00	

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National Measurement Institute

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Lab Reg No.		N23/022258	N23/022262	
Sample Reference		.	.	
	Units			Method
Dates				
Date analysed		27-NOV-2023 00:00	27-NOV-2023 00:00	



Gavin Stevenson, Analyst
Australian Ultra Trace Laboratory

06-DEC-2023

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Report No. RN1412911

Client : AIR NOISE ENVIRONMENT 11/35 INGLESTON ROAD WAKERLEY QLD 4154	Job No. : AIRN01/231024/1 Quote No. : QT-02257 Order No. : Date Sampled : 16-OCT-2023 Date Received : 24-OCT-2023 Sampled By : CLIENT
Attention : GARY HALL Project Name : Your Client Services Manager : Danny Slee	Phone : 02 9449 0169

Lab Reg No.	Sample Ref	Sample Description
N23/022266	.	EF2-TOPA Filter #1 + EF2-TOPA Front Half rinse #2

Lab Reg No.	Units	N23/022266	Method
Sample Reference	.		
Miscellaneous			
Consultation		TOPA treatment	



Luke Baker, Analyst
Organics - NSW

06-DEC-2023

Lab Reg No.	Units	N23/022266	Method
Sample Reference	.		
PFAS (per-and poly-fluoroalkyl substances)			
PFBA (375-22-4)	ng	< 50	AUT_MET_10
PFPaA (2706-90-3)	ng	< 50	AUT_MET_10
PFHxA (307-24-4)	ng	< 30	AUT_MET_10
PFHpA (375-85-9)	ng	< 30	AUT_MET_10
PFOA (335-67-1)	ng	< 10	AUT_MET_10
PFNA (375-95-1)	ng	< 10	AUT_MET_10
PFDA (335-76-2)	ng	< 20	AUT_MET_10
PFUdA (2058-94-8)	ng	< 10	AUT_MET_10
PFDoA (307-55-1)	ng	< 10	AUT_MET_10
PFTTrDA (72629-94-8)	ng	< 10	AUT_MET_10
PFTeDA (376-06-7)	ng	< 10	AUT_MET_10
PFBS (375-73-5)	ng	< 10	AUT_MET_10
PFPeS (2706-91-4)	ng	< 10	AUT_MET_10
PFHxS (355-46-4)	ng	< 5	AUT_MET_10
PFHpS (375-92-8)	ng	< 10	AUT_MET_10

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Report No. RN1412911

Lab Reg No.		N23/022266		
Sample Reference		.		
	Units			Method
PFAS (per- and poly-fluoroalkyl substances)				
PFOS (1763-23-1)	ng	< 5		AUT_MET_10
PFNS (68259-12-1)	ng	< 10		AUT_MET_10
PFDS (335-77-3)	ng	< 5		AUT_MET_10
PFDoS (79780-39-5)	ng	< 5		AUT_MET_10
PFOSA (754-91-6)	ng	< 5		AUT_MET_10
N-MeFOSAA (2355-31-9)	ng	< 5		AUT_MET_10
N-EtFOSAA(2991-50-6)	ng	< 5		AUT_MET_10
4:2 FTS (757124-72-4)	ng	< 50		AUT_MET_10
6:2 FTS (27619-97-2)	ng	< 50		AUT_MET_10
8:2 FTS (39108-34-4)	ng	< 50		AUT_MET_10
10:2 FTS (120226-60-0)	ng	< 50		AUT_MET_10
ADONA (919005-14-4)	ng	< 5		AUT_MET_10
HFPO-DA (13252-13-6)	ng	< 5		AUT_MET_10
9CI-PF3ONS (756426-58-1)	ng	< 5		AUT_MET_10
11CI-PF3OUdS (83329-89-9)	ng	< 5		AUT_MET_10
Pre-extraction standards				
13C4 PFBA	%	74		AUT_MET_10
13C5 PFPeA	%	81		AUT_MET_10
13C5 PFHxA	%	82		AUT_MET_10
13C4 PFHpA	%	77		AUT_MET_10
13C8 PFOA	%	76		AUT_MET_10
13C9 PFNA	%	68		AUT_MET_10
13C6 PFDA	%	64		AUT_MET_10
13C4 PFUnDA	%	57		AUT_MET_10
13C2 PFDODA	%	54		AUT_MET_10
13C2 PFTeDA	%	54		AUT_MET_10
13C3 PFBS	%	88		AUT_MET_10
13C3 PFHxS	%	79		AUT_MET_10
13C8 PFOS	%	76		AUT_MET_10
13C8 PFOSA	%	28		AUT_MET_10
d3 N-MeFOSAA	%	59		AUT_MET_10
d5 N-EtFOSAA	%	63		AUT_MET_10
13C2 4:2FTS	%	120		AUT_MET_10
13C2 6:2FTS	%	118		AUT_MET_10
13C2 8:2FTS	%	74		AUT_MET_10
13C3 HFPO-DA	%	54		AUT_MET_10
Dates				
Date extracted		8-NOV-2023 00:00		
Date analysed		27-NOV-2023 00:00		

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Lab Reg No.		N23/022266		
Sample Reference		.		
	Units			Method



Gavin Stevenson, Analyst
Australian Ultra Trace Laboratory

06-DEC-2023

PFHxS and PFOS were quantified using combined branched and linear standards, for all PFAS linear and branched isomers in samples are totalled for reporting.

Sample extracts underwent Oxidisation treatment to transform precursor PFAS

Results relate only to the sample(s) as received and tested.

* Denotes the analyte or test method is not within our ISO/IEC 17025 scope of accreditation.

Measurement Uncertainty is available upon request.

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Report No. RN1412914

Client	: AIR NOISE ENVIRONMENT 11/35 INGLESTON ROAD WAKERLEY QLD 4154	Job No.	: AIRN01/231024/1
		Quote No.	: QT-02257
		Order No.	:
		Date Sampled	: 16-OCT-2023
		Date Received	: 24-OCT-2023
Attention	: GARY HALL	Sampled By	: CLIENT
Project Name	:		
Your Client Services Manager	: Danny Slee	Phone	: 02 9449 0169

Lab Reg No.	Sample Ref	Sample Description
N23/022259	AUT231011M	Blank-TOPA Main Trap #3 + Blank-TOPA Back Half rinse #4
N23/022261	AUT231011J	Blank-TOPA Breakthrough trap #7

Lab Reg No.		N23/022259	N23/022261	
Sample Reference		AUT231011M	AUT231011J	
	Units			Method
Miscellaneous				
Consultation		TOPA treatment	TOPA treatment	

Luke Baker, Analyst
Organics - NSW

06-DEC-2023

Lab Reg No.		N23/022259	N23/022261	
Sample Reference		AUT231011M	AUT231011J	
	Units			Method
Components				
Cartridge Preparation Charge		Resin Prep	Resin Prep	
PFAS (per-and poly-fluoroalkyl substances)				
PFBA (375-22-4)	ng	< 50	< 50	AUT_MET_10
PFPeA (2706-90-3)	ng	< 50	< 50	AUT_MET_10
PFHxA (307-24-4)	ng	< 10	< 10	AUT_MET_10
PFHpA (375-85-9)	ng	< 20	< 20	AUT_MET_10
PFOA (335-67-1)	ng	< 10	< 10	AUT_MET_10
PFNA (375-95-1)	ng	< 20	< 20	AUT_MET_10
PFDA (335-76-2)	ng	< 20	< 20	AUT_MET_10
PFUdA (2058-94-8)	ng	< 30	< 30	AUT_MET_10
PFDaA (307-55-1)	ng	< 20	< 20	AUT_MET_10
PFTTrDA (72629-94-8)	ng	< 20	< 20	AUT_MET_10
PFTeDA (376-06-7)	ng	< 100	< 100	AUT_MET_10
PFBS (375-73-5)	ng	< 2	< 2	AUT_MET_10

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Lab Reg No.		N23/022259	N23/022261	
Sample Reference		AUT231011M	AUT231011J	
	Units			Method
PFAS (per- and poly-fluoroalkyl substances)				
PFPeS (2706-91-4)	ng	<4	<4	AUT_MET_10
PFHxS (355-46-4)	ng	<2	<2	AUT_MET_10
PFHpS (375-92-8)	ng	<1	<1	AUT_MET_10
PFOS (1763-23-1)	ng	<3	<3	AUT_MET_10
PFNS (68259-12-1)	ng	<2	<2	AUT_MET_10
PFDS (335-77-3)	ng	<2	<2	AUT_MET_10
PFDoS (79780-39-5)	ng	<2	<2	AUT_MET_10
PFOSA (754-91-6)	ng	<5	<5	AUT_MET_10
N-MeFOSAA (2355-31-9)	ng	<5	<5	AUT_MET_10
N-EtFOSAA(2991-50-6)	ng	<5	<5	AUT_MET_10
4:2 FTS (757124-72-4)	ng	<5	<5	AUT_MET_10
6:2 FTS (27619-97-2)	ng	<5	<5	AUT_MET_10
8:2 FTS (39108-34-4)	ng	<5	<5	AUT_MET_10
10:2 FTS (120226-60-0)	ng	<4	<4	AUT_MET_10
ADONA (919005-14-4)	ng	<1	<1	AUT_MET_10
HFPO-DA (13252-13-6)	ng	<1	<1	AUT_MET_10
9CI-PF3ONS (756426-58-1)	ng	<1	<1	AUT_MET_10
11CI-PF3OUdS (83329-89-9)	ng	<1	<1	AUT_MET_10
Pre-extraction standards				
13C4 PFBA	%	80	81	AUT_MET_10
13C5 PFPeA	%	81	82	AUT_MET_10
13C5 PFHxA	%	89	96	AUT_MET_10
13C4 PFHpA	%	77	82	AUT_MET_10
13C8 PFOA	%	94	87	AUT_MET_10
13C9 PFNA	%	81	85	AUT_MET_10
13C6 PFDA	%	88	86	AUT_MET_10
13C4 PFUnDA	%	83	78	AUT_MET_10
13C2 PFDODA	%	76	74	AUT_MET_10
13C2 PFTeDA	%	70	71	AUT_MET_10
13C3 PFBS	%	88	104	AUT_MET_10
13C3 PFHxS	%	85	98	AUT_MET_10
13C8 PFOS	%	87	87	AUT_MET_10
13C8 PFOSA	%	47	42	AUT_MET_10
d3 N-MeFOSAA	%	69	65	AUT_MET_10
d5 N-EtFOSAA	%	86	85	AUT_MET_10
13C2 4:2FTS	%	79	85	AUT_MET_10
13C2 6:2FTS	%	124	137	AUT_MET_10
13C2 8:2FTS	%	84	97	AUT_MET_10
13C3 HFPO-DA	%	63	67	AUT_MET_10
Dates				
Date extracted		7-NOV-2023 00:00	7-NOV-2023 00:00	
Date analysed		27-NOV-2023 00:00	27-NOV-2023 00:00	

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Lab Reg No.	Units	N23/022259	N23/022261	Method
Sample Reference		AUT231011M	AUT231011J	



Gavin Stevenson, Analyst
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Client : AIR NOISE ENVIRONMENT 11/35 INGLESTON ROAD WAKERLEY QLD 4154	Job No. : AIRN01/231024/1 Quote No. : QT-02257 Order No. : Date Sampled : 16-OCT-2023 Date Received : 24-OCT-2023 Sampled By : CLIENT
Attention : GARY HALL Project Name : Your Client Services Manager : Danny Slee	Phone : 02 9449 0169

Lab Reg No.	Sample Ref	Sample Description
N23/022263	AUT231011C	EF1-TOPA Main Trap #3 + EF1-TOPA Back Half rinse #4
N23/022265	AUT231011N	EF1-TOPA Breakthrough trap #7

Lab Reg No.		N23/022263	N23/022265	
Sample Reference		AUT231011C	AUT231011N	
	Units			Method
Miscellaneous				
Consultation		TOPA treatment	TOPA treatment	



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Lab Reg No.		N23/022263	N23/022265	
Sample Reference		AUT231011C	AUT231011N	
	Units			Method
Components				
Cartridge Preparation Charge		Resin Prep	Resin Prep	
PFAS (per-and poly-fluoroalkyl substances)				
PFBA (375-22-4)	ng	< 50	< 50	AUT_MET_10
PFPeA (2706-90-3)	ng	< 50	< 50	AUT_MET_10
PFHxA (307-24-4)	ng	< 10	< 10	AUT_MET_10
PFHpA (375-85-9)	ng	< 20	< 20	AUT_MET_10
PFOA (335-67-1)	ng	< 10	< 10	AUT_MET_10
PFNA (375-95-1)	ng	< 20	< 20	AUT_MET_10
PFDA (335-76-2)	ng	< 20	< 20	AUT_MET_10
PFUdA (2058-94-8)	ng	< 30	< 30	AUT_MET_10
PFDaA (307-55-1)	ng	< 20	< 20	AUT_MET_10
PFTTrDA (72629-94-8)	ng	< 20	< 20	AUT_MET_10
PFTeDA (376-06-7)	ng	< 100	< 100	AUT_MET_10
PFBS (375-73-5)	ng	< 2	< 2	AUT_MET_10

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Lab Reg No.		N23/022263	N23/022265	
Sample Reference		AUT231011C	AUT231011N	
	Units			Method
PFAS (per- and poly-fluoroalkyl substances)				
PFPeS (2706-91-4)	ng	<4	<4	AUT_MET_10
PFHxS (355-46-4)	ng	<2	<2	AUT_MET_10
PFHpS (375-92-8)	ng	<1	<1	AUT_MET_10
PFOS (1763-23-1)	ng	<3	<3	AUT_MET_10
PFNS (68259-12-1)	ng	<2	<2	AUT_MET_10
PFDS (335-77-3)	ng	<2	<2	AUT_MET_10
PFDoS (79780-39-5)	ng	<2	<2	AUT_MET_10
PFOSA (754-91-6)	ng	<5	<5	AUT_MET_10
N-MeFOSAA (2355-31-9)	ng	<5	<5	AUT_MET_10
N-EtFOSAA(2991-50-6)	ng	<5	<5	AUT_MET_10
4:2 FTS (757124-72-4)	ng	<5	<5	AUT_MET_10
6:2 FTS (27619-97-2)	ng	<5	<5	AUT_MET_10
8:2 FTS (39108-34-4)	ng	<5	<5	AUT_MET_10
10:2 FTS (120226-60-0)	ng	<4	<4	AUT_MET_10
ADONA (919005-14-4)	ng	<1	<1	AUT_MET_10
HFPO-DA (13252-13-6)	ng	<1	<1	AUT_MET_10
9CI-PF3ONS (756426-58-1)	ng	<1	<1	AUT_MET_10
11CI-PF3OUdS (83329-89-9)	ng	<1	<1	AUT_MET_10
Pre-extraction standards				
13C4 PFBA	%	83	91	AUT_MET_10
13C5 PFPeA	%	83	85	AUT_MET_10
13C5 PFHxA	%	87	95	AUT_MET_10
13C4 PFHpA	%	83	87	AUT_MET_10
13C8 PFOA	%	89	95	AUT_MET_10
13C9 PFNA	%	79	89	AUT_MET_10
13C6 PFDA	%	89	90	AUT_MET_10
13C4 PFUnDA	%	81	81	AUT_MET_10
13C2 PFDODA	%	84	85	AUT_MET_10
13C2 PFTeDA	%	77	81	AUT_MET_10
13C3 PFBS	%	107	91	AUT_MET_10
13C3 PFHxS	%	96	93	AUT_MET_10
13C8 PFOS	%	103	89	AUT_MET_10
13C8 PFOSA	%	42	45	AUT_MET_10
d3 N-MeFOSAA	%	75	67	AUT_MET_10
d5 N-EtFOSAA	%	91	76	AUT_MET_10
13C2 4:2FTS	%	91	86	AUT_MET_10
13C2 6:2FTS	%	137	134	AUT_MET_10
13C2 8:2FTS	%	114	99	AUT_MET_10
13C3 HFPO-DA	%	67	65	AUT_MET_10
Dates				
Date extracted		7-NOV-2023 00:00	7-NOV-2023 00:00	
Date analysed		27-NOV-2023 00:00	27-NOV-2023 00:00	

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Lab Reg No.		N23/022263	N23/022265	
Sample Reference		AUT231011C	AUT231011N	
	Units			Method



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Client : AIR NOISE ENVIRONMENT 11/35 INGLESTON ROAD WAKERLEY QLD 4154	Job No. : AIRN01/231024/1 Quote No. : QT-02257 Order No. : Date Sampled : 16-OCT-2023 Date Received : 24-OCT-2023 Sampled By : CLIENT
Attention : GARY HALL Project Name : Your Client Services Manager : Danny Slee	Phone : 02 9449 0169

Lab Reg No.	Sample Ref	Sample Description
N23/022267	AUT231011I	EF2-TOPA Main Trap #3 + EF2-TOPA Back Half rinse #4
N23/022269	AUT231011B	EF2-TOPA Breakthrough trap #7

Lab Reg No.		N23/022267	N23/022269	
Sample Reference		AUT231011I	AUT231011B	
	Units			Method
Miscellaneous				
Consultation		TOPA treatment	TOPA treatment	

N23/022269



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Lab Reg No.		N23/022267	N23/022269	
Sample Reference		AUT231011I	AUT231011B	
	Units			Method
Components				
Cartridge Preparation Charge		Resin Prep	Resin Prep	
PFAS (per-and poly-fluoroalkyl substances)				
PFBA (375-22-4)	ng	< 50	< 50	AUT_MET_10
PFPeA (2706-90-3)	ng	< 50	< 50	AUT_MET_10
PFHxA (307-24-4)	ng	< 10	< 10	AUT_MET_10
PFHpA (375-85-9)	ng	< 20	< 20	AUT_MET_10
PFOA (335-67-1)	ng	< 10	< 10	AUT_MET_10
PFNA (375-95-1)	ng	< 20	< 20	AUT_MET_10
PFDA (335-76-2)	ng	< 20	< 20	AUT_MET_10
PFUdA (2058-94-8)	ng	< 30	< 30	AUT_MET_10
PFDaA (307-55-1)	ng	< 20	< 20	AUT_MET_10

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Lab Reg No.		N23/022267	N23/022269	
Sample Reference		AUT231011I	AUT231011B	
	Units			Method
PFAS (per- and poly-fluoroalkyl substances)				
PFTTrDA (72629-94-8)	ng	<20	<20	AUT_MET_10
PFTTeDA (376-06-7)	ng	<100	<100	AUT_MET_10
PFBS (375-73-5)	ng	<2	<2	AUT_MET_10
PFPeS (2706-91-4)	ng	<4	<4	AUT_MET_10
PFHxS (355-46-4)	ng	<2	<2	AUT_MET_10
PFHpS (375-92-8)	ng	<1	<1	AUT_MET_10
PFOS (1763-23-1)	ng	<3	<3	AUT_MET_10
PFNS (68259-12-1)	ng	<2	<2	AUT_MET_10
PFDS (335-77-3)	ng	<2	<2	AUT_MET_10
PFDoS (79780-39-5)	ng	<2	<2	AUT_MET_10
PFOSA (754-91-6)	ng	<5	<5	AUT_MET_10
N-MeFOSAA (2355-31-9)	ng	<5	<5	AUT_MET_10
N-EtFOSAA(2991-50-6)	ng	<5	<5	AUT_MET_10
4:2 FTS (757124-72-4)	ng	<5	<5	AUT_MET_10
6:2 FTS (27619-97-2)	ng	<5	<5	AUT_MET_10
8:2 FTS (39108-34-4)	ng	<5	<5	AUT_MET_10
10:2 FTS (120226-60-0)	ng	<4	<4	AUT_MET_10
ADONA (919005-14-4)	ng	<1	<1	AUT_MET_10
HFPO-DA (13252-13-6)	ng	<1	<1	AUT_MET_10
9CI-PF3ONS (756426-58-1)	ng	<1	<1	AUT_MET_10
11CI-PF3OUdS (83329-89-9)	ng	<1	<1	AUT_MET_10
Pre-extraction standards				
13C4 PFBA	%	82	86	AUT_MET_10
13C5 PFPeA	%	89	88	AUT_MET_10
13C5 PFHxA	%	100	98	AUT_MET_10
13C4 PFHpA	%	83	82	AUT_MET_10
13C8 PFOA	%	92	87	AUT_MET_10
13C9 PFNA	%	85	86	AUT_MET_10
13C6 PFDA	%	91	93	AUT_MET_10
13C4 PFUnDA	%	88	93	AUT_MET_10
13C2 PFDoDA	%	85	92	AUT_MET_10
13C2 PFTeDA	%	75	81	AUT_MET_10
13C3 PFBS	%	99	99	AUT_MET_10
13C3 PFHxS	%	92	96	AUT_MET_10
13C8 PFOS	%	88	95	AUT_MET_10
13C8 PFOSA	%	51	49	AUT_MET_10
d3 N-MeFOSAA	%	69	74	AUT_MET_10
d5 N-EtFOSAA	%	85	85	AUT_MET_10
13C2 4:2FTS	%	84	81	AUT_MET_10
13C2 6:2FTS	%	118	127	AUT_MET_10
13C2 8:2FTS	%	90	91	AUT_MET_10
13C3 HFPO-DA	%	71	73	AUT_MET_10

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Lab Reg No.		N23/022267	N23/022269	
Sample Reference		AUT231011I	AUT231011B	
	Units			Method
Dates				
Date extracted		7-NOV-2023 00:00	7-NOV-2023 00:00	
Date analysed		27-NOV-2023 00:00	27-NOV-2023 00:00	



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PFHxS and PFOS were quantified using combined branched and linear standards, for all PFAS linear and branched isomers in samples are totalled for reporting.

Sample extracts underwent Oxidisation treatment to transform precursor PFAS

Results relate only to the sample(s) as received and tested.

* Denotes the analyte or test method is not within our ISO/IEC 17025 scope of accreditation.

Measurement Uncertainty is available upon request.

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Report No. RN1412915

Client	: AIR NOISE ENVIRONMENT 11/35 INGLESTON ROAD WAKERLEY QLD 4154	Job No.	: AIRN01/231024/1
		Quote No.	: QT-02257
		Order No.	:
		Date Sampled	: 16-OCT-2023
		Date Received	: 24-OCT-2023
Attention	: GARY HALL	Sampled By	: CLIENT
Project Name	:		
Your Client Services Manager	: Danny Slee	Phone	: 02 9449 0169

Lab Reg No.	Sample Ref	Sample Description
N23/022260	.	Blank-TOPA Impingers #5 + Blank-TOPA Impinger rinse #6
N23/022264	.	EF1-TOPA Impingers #5 + EF1-TOPA Impinger rinse #6

Lab Reg No.		N23/022260	N23/022264	
Sample Reference	Units	.	.	Method
Miscellaneous				
Consultation		TOPA treatment	TOPA treatment	

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Organics - NSW

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Lab Reg No.		N23/022260	N23/022264	
Sample Reference	Units	.	.	Method
PFAS (per-and poly-fluoroalkyl substances)				
PFBA (375-22-4)	ng	<20	<20	AUT_MET_10
PFPeA (2706-90-3)	ng	<20	<20	AUT_MET_10
PFHxA (307-24-4)	ng	<8	<8	AUT_MET_10
PFHpA (375-85-9)	ng	<8	<8	AUT_MET_10
PFOA (335-67-1)	ng	<2	<2	AUT_MET_10
PFNA (375-95-1)	ng	<2	<2	AUT_MET_10
PFDA (335-76-2)	ng	<10	<10	AUT_MET_10
PFUdA (2058-94-8)	ng	<10	<10	AUT_MET_10
PFDoA (307-55-1)	ng	<20	<20	AUT_MET_10
PFTTrDA (72629-94-8)	ng	<20	<20	AUT_MET_10
PFTeDA (376-06-7)	ng	<50	<50	AUT_MET_10
PFBS (375-73-5)	ng	<20	<20	AUT_MET_10
PFPeS (2706-91-4)	ng	<8	<8	AUT_MET_10

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Lab Reg No.		N23/022260	N23/022264	
Sample Reference	Units			Method
PFAS (per-and poly-fluoroalkyl substances)				
PFHxS (355-46-4)	ng	<2	<2	AUT_MET_10
PFHpS (375-92-8)	ng	<2	<2	AUT_MET_10
PFOS (1763-23-1)	ng	<2	<2	AUT_MET_10
PFNS (68259-12-1)	ng	<2	<2	AUT_MET_10
PFDS (335-77-3)	ng	<2	<2	AUT_MET_10
PFDoS (79780-39-5)	ng	<2	<2	AUT_MET_10
PFOSA (754-91-6)	ng	<2	<2	AUT_MET_10
N-MeFOSAA (2355-31-9)	ng	<2	<2	AUT_MET_10
N-EtFOSAA(2991-50-6)	ng	<2	<2	AUT_MET_10
4:2 FTS (757124-72-4)	ng	<5	<5	AUT_MET_10
6:2 FTS (27619-97-2)	ng	<2	<2	AUT_MET_10
8:2 FTS (39108-34-4)	ng	<5	<5	AUT_MET_10
10:2 FTS (120226-60-0)	ng	<8	<8	AUT_MET_10
ADONA (919005-14-4)	ng	<2	<2	AUT_MET_10
HFPO-DA (13252-13-6)	ng	<2	<2	AUT_MET_10
9CI-PF3ONS (756426-58-1)	ng	<2	<2	AUT_MET_10
11CI-PF3OUdS (83329-89-9)	ng	<2	<2	AUT_MET_10
Pre-extraction standards				
13C4 PFBA	%	77	84	AUT_MET_10
13C5 PFPeA	%	81	82	AUT_MET_10
13C5 PFHxA	%	85	85	AUT_MET_10
13C4 PFHpA	%	82	75	AUT_MET_10
13C8 PFOA	%	90	80	AUT_MET_10
13C9 PFNA	%	78	67	AUT_MET_10
13C6 PFDA	%	83	64	AUT_MET_10
13C4 PFUnDA	%	68	56	AUT_MET_10
13C2 PFDoDA	%	63	56	AUT_MET_10
13C2 PFTeDA	%	55	54	AUT_MET_10
13C3 PFBS	%	87	88	AUT_MET_10
13C3 PFHxS	%	86	83	AUT_MET_10
13C8 PFOS	%	91	69	AUT_MET_10
13C8 PFOSA	%	41	36	AUT_MET_10
d3 N-MeFOSAA	%	61	50	AUT_MET_10
d5 N-EtFOSAA	%	74	67	AUT_MET_10
13C2 4:2FTS	%	77	92	AUT_MET_10
13C2 6:2FTS	%	117	101	AUT_MET_10
13C2 8:2FTS	%	82	75	AUT_MET_10
13C3 HFPO-DA	%	69	62	AUT_MET_10
Dates				
Date extracted		9-NOV-2023 00:00	9-NOV-2023 00:00	
Date analysed		27-NOV-2023 00:00	27-NOV-2023 00:00	

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Lab Reg No.	Units	N23/022260	N23/022264	Method
Sample Reference		.	.	

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Report No. RN1412915

Client : AIR NOISE ENVIRONMENT 11/35 INGLESTON ROAD WAKERLEY QLD 4154	Job No. : AIRN01/231024/1 Quote No. : QT-02257 Order No. : Date Sampled : 16-OCT-2023 Date Received : 24-OCT-2023 Sampled By : CLIENT
Attention : GARY HALL Project Name : Your Client Services Manager : Danny Slee	Phone : 02 9449 0169

Lab Reg No.	Sample Ref	Sample Description
N23/022268	.	EF2-TOPA Impingers #5 + EF2-TOPA Impinger rinse #6

Lab Reg No.	Units	N23/022268	Method
Sample Reference	.		
Miscellaneous			
Consultation		TOPA treatment	



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Lab Reg No.	Units	N23/022268	Method
Sample Reference	.		
PFAS (per-and poly-fluoroalkyl substances)			
PFBA (375-22-4)	ng	< 20	AUT_MET_10
PFPaA (2706-90-3)	ng	< 20	AUT_MET_10
PFHxA (307-24-4)	ng	< 8	AUT_MET_10
PFHpA (375-85-9)	ng	< 8	AUT_MET_10
PFOA (335-67-1)	ng	< 2	AUT_MET_10
PFNA (375-95-1)	ng	< 2	AUT_MET_10
PFDA (335-76-2)	ng	< 10	AUT_MET_10
PFUdA (2058-94-8)	ng	< 10	AUT_MET_10
PFDoA (307-55-1)	ng	< 20	AUT_MET_10
PFTTrDA (72629-94-8)	ng	< 20	AUT_MET_10
PFTeDA (376-06-7)	ng	< 50	AUT_MET_10
PFBS (375-73-5)	ng	< 20	AUT_MET_10
PFPaS (2706-91-4)	ng	< 8	AUT_MET_10
PFHxS (355-46-4)	ng	< 2	AUT_MET_10
PFHpS (375-92-8)	ng	< 2	AUT_MET_10

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Lab Reg No.		N23/022268		
Sample Reference				
	Units			Method
PFAS (per- and poly-fluoroalkyl substances)				
PFOS (1763-23-1)	ng	<2		AUT_MET_10
PFNS (68259-12-1)	ng	<2		AUT_MET_10
PFDS (335-77-3)	ng	<2		AUT_MET_10
PFDoS (79780-39-5)	ng	<2		AUT_MET_10
PFOSA (754-91-6)	ng	<2		AUT_MET_10
N-MeFOSAA (2355-31-9)	ng	<2		AUT_MET_10
N-EtFOSAA(2991-50-6)	ng	<2		AUT_MET_10
4:2 FTS (757124-72-4)	ng	<5		AUT_MET_10
6:2 FTS (27619-97-2)	ng	<2		AUT_MET_10
8:2 FTS (39108-34-4)	ng	<5		AUT_MET_10
10:2 FTS (120226-60-0)	ng	<8		AUT_MET_10
ADONA (919005-14-4)	ng	<2		AUT_MET_10
HFPO-DA (13252-13-6)	ng	<2		AUT_MET_10
9CI-PF3ONS (756426-58-1)	ng	<2		AUT_MET_10
11CI-PF3OUdS (83329-89-9)	ng	<2		AUT_MET_10
Pre-extraction standards				
13C4 PFBA	%	77		AUT_MET_10
13C5 PFPeA	%	85		AUT_MET_10
13C5 PFHxA	%	84		AUT_MET_10
13C4 PFHpA	%	81		AUT_MET_10
13C8 PFOA	%	91		AUT_MET_10
13C9 PFNA	%	83		AUT_MET_10
13C6 PFDA	%	90		AUT_MET_10
13C4 PFUnDA	%	80		AUT_MET_10
13C2 PFDODA	%	74		AUT_MET_10
13C2 PFTeDA	%	58		AUT_MET_10
13C3 PFBS	%	91		AUT_MET_10
13C3 PFHxS	%	84		AUT_MET_10
13C8 PFOS	%	91		AUT_MET_10
13C8 PFOSA	%	47		AUT_MET_10
d3 N-MeFOSAA	%	66		AUT_MET_10
d5 N-EtFOSAA	%	74		AUT_MET_10
13C2 4:2FTS	%	72		AUT_MET_10
13C2 6:2FTS	%	91		AUT_MET_10
13C2 8:2FTS	%	76		AUT_MET_10
13C3 HFPO-DA	%	64		AUT_MET_10
Dates				
Date extracted		9-NOV-2023 00:00		
Date analysed		27-NOV-2023 00:00		

REPORT OF ANALYSIS

Page: 6 of 6

Report No. RN1412915

Lab Reg No.	Units	N23/022268		Method
Sample Reference		.		



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EMISSIONS MONITORING – HI QUALITY WASTE, YATALA

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Metals Emissions Monitoring Report

ADE Consulting



Accredited for Compliance with ISO/IEC 17025 – Testing

Sampling Date: 18 October 2023

Issued: 17 November 2023

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EXECUTIVE SUMMARY

Emissions sampling was conducted from the baghouse filter stacks at the Hi-Quality Waste Treatment Services facility in Yatala on 18 October 2023. A summary of the results compared to the licence limits are included in Table E1 below.

Table E1-1: Summary of Results

Compound	Stack 1 (EF1)		Stack 2 (EF2)		Units
	Measured Emissions	Criteria Release Limit	Measured Emissions	Criteria Release Limit	
Particulates	0.39	50	0.55	50	mg/Nm ³
	0.0025	0.315	0.0063	0.535	g/s
Volatile organic compounds (as n-propane equivalent)	0.30	40	0.12	40	mg/Nm ³
	0.0019	0.250	0.0013	0.427	g/s
Total Heavy metals	0.0381	1	0.0139	1	mg/Nm ³
	0.000248	0.006	0.000161	0.11	g/s
Stack Velocity (exit) (minimum)	18.7	3	20.2	3	m/s

1. INTRODUCTION

ADE Consulting commissioned Trinity Consultants Australia to conduct monitoring of air emissions from the Hi-Quality Waste Treatment Services facility, as part of their requirements under the Queensland Department of Environment and Science Environmental Authority for the facility.

Table 1-1 details the monitoring locations and the monitoring performed at each location. The monitoring was completed on 18 October 2023.

Table 1-1: Monitoring Locations and Parameters

Compound	Release Point	
	EF1	EF2
Velocity, Flowrate and Temperature	✓	✓
Oxygen and Carbon Dioxide	✓	✓
Moisture Content	✓	✓
Particulates	✓	✓
Volatile Organic Compounds (VOC)	✓	✓
Metals (Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Mn, Hg, Ni, P, Se, Ag, Tl, Zn)	✓	✓

The monitoring of air emissions at the Hi-Quality Waste Treatment Services facility was completed during normal operating conditions. Any factors that may have affected the monitoring results were not observed by, or brought to the notice of Trinity Consultants Australia staff except where noted in this report.

2. METHODOLOGY

2.1 Emission Testing

Table 2-1 below lists the Methods used when undertaking emission monitoring at Hi-Quality Waste Treatment Services.

All air quality monitoring undertaken by the Trinity Consultants Australia staff has been undertaken in accordance with the methods identified in Table 2-1 below unless as specified in Section 2.3.

Table 2-1: Summary of Emission Monitoring Methods

Measurement Parameter	Method Equivalency
Sampling Positions	AS4323.1-2021 Selection of sampling positions and measurement of velocity in stacks
Velocity, Flowrate and Temperature	AS4323.1-2021 Selection of sampling positions and measurement of velocity in stacks
Oxygen and Carbon Dioxide	USEPA Method 3a Determination of Oxygen and Carbon Dioxide Concentrations in Emissions from Stationary Sources
Moisture Content	USEPA Method 4 Determination of Moisture Content in Stack Gases
Particulates	AS 4323.2-1995 Stationary Source Emissions - Method 2: Determination of Total Particulate Matter - Isokinetic Manual Sampling - Gravimetric Method
Volatile Organic Compounds (VOC) Speciated Organic Compounds	USEPA Method 18 Measurement of Gaseous Organic Compounds by Gas Chromatography.
Metals (Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Mn, Hg, Ni, P, Se, Ag, Tl, Zn)	USEPA Method 29 Determination of Metals Emissions from Stationary Sources

2.2 Laboratory Analysis

Table 2-2 provides a list of the NATA accredited laboratories that performed the applicable analysis, NATA accreditation number, and report number.

Table 2-2: Table of NATA Accredited Laboratories with NATA Accreditation Number

Measurement Parameter	NATA Accreditation Number	Report Number
Volatile Organic Compounds (VOC) Metals (Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Mn, Hg, Ni, P, Se, Ag, Tl, Zn)	National Measurement Institute - 198	RN1410162

2.3 Deviation from Methods

The gas meter and critical orifice within the isokinetic sampling console was aligned as per specified by US EPA Method 5 - Determination of Particulate Matter Emissions from Stationary Sources. AS4323.2 requires the critical orifice to be positioned before the gas meter within the sampling system.

Process Conditions

Sampling was conducted under normal process conditions. Sampling at each location was only conducted after the operator confirmed production was normal. Hi-Quality maintain their own records of process conditions.

3. RESULTS

3.1 Monitoring Results

3.1.1 EF1

Results of emissions monitoring for Stack EF1 are provided in Table 3-2 and Table 3-3 below for emissions monitoring completed on 18 October 2023.

Table 3-1: Flow and Sample Characteristics for EF1

Parameter	Monitoring Result	Units
Run Start Time	08:10	hh:mm
Run Stop Time	09:25	hh:mm
Meter Calibration Factor	1.021	-
Pitot Tube Coefficient	0.84	-
Nozzle Diameter	12.70	mm
Total Meter Volume	1.645	m ³
Average Meter Temperature	26	°C
Average Stack Temperature	24	°C
Barometric Pressure	762.81	mm Hg
Stack Static Pressure	-36.7	mm H ₂ O
Calculated Stack Moisture	2.2	%
Carbon Dioxide Percentage	0.05	%
Oxygen Percentage	21.02	%

Parameter	Monitoring Result	Units
Dry Gas Molecular Weight	28.85	g/g-mole
Wet Stack Gas Molecular Weight	28.61	g/g-mole
Average Stack Gas Velocity	2.9	m/s
Average Stack Gas Velocity at Exit (m)	18.7	m/s
Stack Diameter	1.345 x 1.83	m
Actual Stack Flow Rate	430	m ³ /min
Dry Standard Stack Flow Rate	390	Nm ³ /min
Percent of Isokinetic Rate	103.4	%

Table 3-2: Emissions Monitoring Results for EF1

Compound	Emission Concentration (mg/Nm ³)	Emission Rate (g/min)	Emission Rate (g/s)
Particulates (TSP)	0.39	0.15	0.0025
Copper	0.0017	0.00064	0.0000011
Lead	0.0077	0.003	0.00005
Nickel	0.0042	0.0016	0.000027
Silver	0.015	0.0059	0.000098
Zinc	0.0095	0.0037	0.000062
Total Metals ^a	0.0381	0.01484	0.000248
Toluene	0.6	0.2	0.004
Total Volatile Organic Compounds ^b (as n-Propane)	0.3	0.1	0.002

^a The following metal species were below detection limits: Sb, As, Be, Hg, P, Se, Tl.

Only toluene was detected. No other VOC compounds were detected. The list of VOC compounds analysed include: Benzene, Ethylbenzene, m & p-Xylenes, o-Xylene, Styrene, Isopropylbenzene, n-Propylbenzene, 1,3,5-Trimethylbenzene, tert-Butylbenzene, 1,2,4-Trimethylbenzene, sec-Butylbenzene, 4-Isopropyltoluene, n-Butylbenzene, Dichlorodifluoromethane, Chloromethane, Vinyl chloride, Bromomethane, Chloroethane, Trichlorofluoromethane, 1,1-Dichloroethane, Dichloromethane, trans-1,2-Dichloroethene, 1,1-Dichloroethene, 2,2-Dichloropropane, cis-1,2-Dichloroethene, Bromochloromethane, 1,1,1-Trichloroethane, Carbon tetrachloride, 1,1-Dichloropropene, 1,2-Dichloroethane, Trichloroethene, 1,2-Dichloropropane, Dibromomethane, cis-1,3-Dichloropropene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane, Tetrachloroethene, 1,3-Dichloropropane, 1,2-Dibromoethane, 1,1,1,2-Tetrachloroethane, 1,1,2,2-Tetrachloroethane, 1,2,3-Trichloropropane, 1,2-Dibromo-3-chloropropane, Hexachlorobutadiene, Chlorobenzene, Bromobenzene, 2-Chlorotoluene, 4-Chlorotoluene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene, Chloroform, Bromodichloromethane, Dibromochloromethane, Bromoform, Naphthalene.

3.1.2 EF2

Results of emissions monitoring for Stack EF2 are provided in Table 3-2 and Table 3-3 below for emissions monitoring completed on 18 October 2023.

Table 3-3: Flow and Sample Characteristics for EF2

Parameter	Monitoring Result	Units
Run Start Time	10:20	hh:mm
Run Stop Time	11:44	hh:mm
Meter Calibration Factor	0.998	-
Pitot Tube Coefficient	0.84	-
Nozzle Diameter	12.70	mm
Total Meter Volume	2.013	m ³
Average Meter Temperature	31	°C
Average Stack Temperature	27	°C
Barometric Pressure	759.81	mm Hg
Stack Static Pressure	-30.1	mm H ₂ O
Calculated Stack Moisture	1.6	%
Carbon Dioxide Percentage	0.04	%
Oxygen Percentage	21.02	%
Dry Gas Molecular Weight	28.85	g/g-mole
Wet Stack Gas Molecular Weight	28.67	g/g-mole
Average Stack Gas Velocity (Sampling plane)	3.1	m/s
Average Stack Gas Velocity at Exit (m)	20.2	m/s
Stack Diameter	2 x 2.05	m
Actual Stack Flow Rate	770	m ³ /min
Dry Standard Stack Flow Rate	690	Nm ³ /min
Percent of Isokinetic Rate	101.3	%

Table 3-4: Emissions Monitoring Results for EF2

Compound	Emission Concentration (mg/Nm ³)	Emission Rate (g/min)	Emission Rate (g/s)
Particulates (TSP)	0.55	0.38	0.0063
Copper	0.0025	0.0017	0.000029
Lead	0.0033	0.0023	0.000038
Nickel	0.00089	0.00062	0.00001
Zinc	0.0073	0.005	0.000084
Total Metals ^a	0.01399	0.00962	0.000161
Toluene	0.5	0.3	0.005
Total Volatile Organic Compounds ^b (as n-Propane)	0.1	0.08	0.001

^a The following metal species were below detection limits: Sb, As, Be, Cd, Cr, Co, Mn, Hg, Se, Ag, Tl.

The list of VOC compounds analysed include: Benzene, Toluene, Ethylbenzene, m & p-Xylenes, o-Xylene, Styrene, Isopropylbenzene, n-Propylbenzene, 1,3,5-Trimethylbenzene, tert-Butylbenzene, 1,2,4-Trimethylbenzene, sec-Butylbenzene, 4-Isopropyltoluene, n-Butylbenzene, Dichlorodifluoromethane, Chloromethane, Vinyl chloride, Bromomethane, Chloroethane, Trichlorofluoromethane, 1,1-Dichloroethane, Dichloromethane, trans-1,2-Dichloroethene, 1,1-Dichloroethene, 2,2-Dichloropropane, cis-1,2-Dichloroethene, Bromochloromethane, 1,1,1-Trichloroethane, Carbon tetrachloride, 1,1-Dichloropropene, 1,2-Dichloroethane, Trichloroethene, 1,2-Dichloropropane, Dibromomethane cis-1,3-Dichloropropene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane, Tetrachloroethene, 1,3-Dichloropropane, 1,2-Dibromoethane, 1,1,1,2-Tetrachloroethane, 1,1,2,2-Tetrachloroethane, 1,2,3-Trichloropropane, 1,2-Dibromo-3-chloropropane, Hexachlorobutadiene, Chlorobenzene, Bromobenzene, 2-Chlorotoluene, 4-Chlorotoluene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene Chloroform, Bromodichloromethane, Dibromochloromethane, Bromoform, Naphthalene.

3.2 Accuracy of Monitoring Results

Tables 3-4 to 3-5 present a summary of the estimated method uncertainties for each of the monitoring parameters and location.

Table 3-5: Estimated Method Uncertainties for EF1

Measurement Parameter	Method	% Uncertainty	Uncertainty	Units
Oxygen	USEPA Method 3A	2.00	0.42	%
Metals	USEPA Method 29	10	-	%
Particulates	AS 4323.2	-	0.47	mg/Nm ³
Volatile Organic Compounds	USEPA Method 18	10	-	mg/Nm ³

Table 3-6: Estimated Method Uncertainties for EF2

Measurement Parameter	Method	% Uncertainty	Uncertainty	Units
Oxygen	USEPA Method 3A	2.00	0.42	%
Metals	USEPA Method 29	10	-	%
Particulates	AS 4323.2	-	0.41	mg/Nm ³
Volatile Organic Compounds	USEPA Method 18	10	-	mg/Nm ³

APPENDIX A GLOSSARY

Parameter or Term	Description
<	The analytes tested for was not detected, the value stated is the reportable limit of detection
µg	Micrograms (10 ⁻⁶ grams)
AS	Australian Standard
dscm	dry standard cubic meters (at 0°C and 1 atmosphere)
g	grams
kg	kilograms
m	metres
m ³	Cubic Metres, actual gas volume in cubic metres as measured.
mg	Milligrams
min	Minute
mg/m ³	Milligrams (10 ⁻³) per cubic metre.
mmH ₂ O	Millimetres of water
Mole	The mole, symbol mol, is the SI unit of amount of substance. One mole contains exactly 6.022 140 76 x 10²³ elementary entities. This number is the fixed numerical value of the Avogadro constant, N_A, when expressed in the unit mol⁻¹ and is called the Avogadro number. The amount of substance, symbol n, of a system is a measure of the number of specified elementary entities. An elementary entity may be an atom, a molecule, an ion, an electron, any other particle or specified group of particles. This definition implies the exact relation $N_A = 6.022\ 140\ 76 \times 10^{23} \text{ mol}^{-1}$. Inverting this relation gives an exact expression for the mole in terms of the defining constant N_A: $1 \text{ mol} = \left(\frac{6.022\ 140\ 76 \times 10^{23}}{N_A} \right)$ The effect of this definition is that the mole is the amount of substance of a system that contains 6.022 140 76 x 10²³ specified elementary entities.
N/A	Not Applicable
ng	Nanograms (10 ⁻⁹ grams)
Nm ³	Normalised Cubic Metres - Gas volume in dry cubic metres at standard temperature and pressure (0°C and 101.3 kPa).
ou	Odour Units
°C	Degrees Celsius
µg/m ³	Micrograms (10 ⁻⁶) per cubic metre. Conversions from µg/m ³ to parts per volume concentrations (ie, ppb) are calculated at 25 °C.
ppb / ppm	Parts per billion / million.
PM	Particulate Matter.
PM ₁₀ , PM _{2.5} , PM ₁	Fine particulate matter with an equivalent aerodynamic diameter of less than 10, 2.5 or 1 micrometres respectively. Fine particulates are predominantly sourced from combustion processes. Vehicle emissions are a key source in urban environments.
sec	Second
Sm ³	Standardised Cubic Metres - Gas volume in dry cubic metres at standard temperature and pressure (0°C and 101.3 kPa) and corrected to a standardised value (e.g. 7% O ₂).
STP	Standard Temperature and Pressure (0°C and 101.3 kPa).
TVOC	Total Volatile Organic Compounds. These compounds can be both toxic and odorous.

Parameter or Term	Description
USEPA	United States Environmental Protection Agency



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Appendix G – QA/QC Data

Lab Report Number			1036504		RPD	1036504		RPD	1036504		RPD	1036504		RPD	1036504		RPD	1036504		RPD
Field ID	Date	Matrix Type	B1-6	QC01		B1-6	QC02		B2-6	QC03		B2-6	QC04		B3-6	QC05		B3-6	QC06	
			16 Oct 2023	17 Oct 2023		16 Oct 2023	17 Oct 2023		17 Oct 2023	17 Oct 2023		17 Oct 2023	17 Oct 2023		17 Oct 2023	17 Oct 2023		17 Oct 2023	17 Oct 2023	
			Soil	Soil		Soil	Soil		Soil	Soil		Soil	Soil		Soil	Soil		Soil	Soil	
	Unit	EQL																		
Leaching Preparation																				
pH of Leaching Fluid	-	0.1					7						7						7	
pH (Final)	-	0.1					10.8						8.7						9	
Perfluoroalkane Carboxylic Acids																				
Perfluorobutanoic acid (PFBA)	mg/kg	0.001	0.025	0.023	8	0.025	0.019	27	<0.005	<0.005	0	<0.005	<0.001	0	<0.005	<0.005	0	<0.005	<0.001	0
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0002	0.069	0.061	12	0.069	0.057	19	<0.005	<0.005	0	<0.005	0.0022	0	<0.005	<0.005	0	<0.005	0.0023	0
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0002	0.077	0.074	4	0.077	0.0645	18	<0.005	<0.005	0	<0.005	0.001	0	<0.005	<0.005	0	<0.005	0.0008	0
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0002	0.0085	0.0081	5	0.0085	0.0087	2	<0.005	<0.005	0	<0.005	0.0027	0	<0.005	<0.005	0	<0.005	0.0006	0
Perfluorooctanoic acid (PFOA)	mg/kg	0.0002	<0.005	<0.005	0	<0.005	0.0021	0	<0.005	<0.005	0	<0.005	0.0013	0	<0.005	<0.005	0	<0.005	0.0008	0
Perfluorodecanoic acid (PFDA)	mg/kg	0.0002	<0.005	<0.005	0	<0.005	<0.0002	0	<0.005	<0.005	0	<0.005	0.0002	0	<0.005	<0.005	0	<0.005	<0.0002	0
Perfluorododecanoic acid (PFDoDA)	mg/kg	0.0002	<0.005	<0.005	0	<0.005	<0.0002	0	<0.005	<0.005	0	<0.005	<0.0002	0	<0.005	<0.005	0	<0.005	<0.0002	0
Perfluorononanoic acid (PFNA)	mg/kg	0.0002	<0.005	<0.005	0	<0.005	0.0002	0	<0.005	<0.005	0	<0.005	0.0002	0	<0.005	<0.005	0	<0.005	0.0002	0
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0005	<0.005	<0.005	0	<0.005	<0.0005	0	<0.005	<0.005	0	<0.005	<0.0005	0	<0.005	<0.005	0	<0.005	<0.0005	0
Perfluorotridecanoic acid (PFTriDA)	mg/kg	0.0002	<0.005	<0.005	0	<0.005	<0.0002	0	<0.005	<0.005	0	<0.005	<0.0002	0	<0.005	<0.005	0	<0.005	<0.0002	0
Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.0002	<0.005	<0.005	0	<0.005	<0.0002	0	<0.005	<0.005	0	<0.005	<0.0002	0	<0.005	<0.005	0	<0.005	<0.0002	0
(n:2) Fluorotelomer Sulfonic Acids																				
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	mg/kg	0.0005	<0.005	<0.005	0	<0.005	<0.0005	0	<0.005	<0.005	0	<0.005	<0.0005	0	<0.005	<0.005	0	<0.005	<0.0005	0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	mg/kg	0.0005	0.09	0.077	16	0.09	0.06	40	0.014	0.011	24	0.014	0.0078	57	<0.01	<0.01	0	<0.01	0.0019	0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	mg/kg	0.0005	0.029	0.022	27	0.029	0.0165	55	<0.005	<0.005	0	<0.005	0.0016	0	<0.005	<0.005	0	<0.005	0.0009	0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	mg/kg	0.0005	<0.005	<0.005	0	<0.005	<0.0005	0	<0.005	<0.005	0	<0.005	<0.0005	0	<0.005	<0.005	0	<0.005	<0.0005	0
Perfluoroalkane Sulfonic Acids																				
Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.005	<0.005	<0.005	0	<0.005			<0.005	<0.005	0	<0.005			<0.005	<0.005	0	<0.005		
Perfluorobutane sulfonic acid (PFBS)	mg/kg	0.0002	<0.005	<0.005	0	<0.005	<0.0002	0	<0.005	<0.005	0	<0.005	<0.0002	0	<0.005	<0.005	0	<0.005	0.0007	0
Perfluoropentane sulfonic acid (PFPeS)	mg/kg	0.0002	<0.005	<0.005	0	<0.005	<0.0002	0	<0.005	<0.005	0	<0.005	<0.0002	0	<0.005	<0.005	0	<0.005	0.0008	0
Perfluorohexane sulfonic acid (PFHxS)	mg/kg	0.0002	<0.005	<0.005	0	<0.005	<0.0004	0	<0.005	<0.005	0	<0.005	0.0012	0	0.0064	0.0063	2	0.0064	0.0064	0
Perfluoroheptane sulfonic acid (PFHpS)	mg/kg	0.0002	<0.005	<0.005	0	<0.005	<0.0002	0	<0.005	<0.005	0	<0.005	<0.0002	0	<0.005	<0.005	0	<0.005	0.0006	0
Perfluorooctane sulfonic acid (PFOS)	mg/kg	0.0002	<0.005	<0.005	0	<0.005	0.0014	0	0.014	0.011	24	0.014	0.012	15	0.087	0.066	27	0.087	0.0563	43
Perfluorodecane sulfonic acid (PFDS)	mg/kg	0.0002	<0.005	<0.005	0	<0.005	<0.0002	0	<0.005	<0.005	0	<0.005	<0.0002	0	<0.005	<0.005	0	<0.005	<0.0004	0
Perfluoroalkyl Sulfonamides																				
Perfluorooctane sulfonamide (FOSA)	mg/kg	0.0002	<0.005	<0.005	0	<0.005	<0.0002	0	<0.005	<0.005	0	<0.005	<0.0002	0	<0.005	<0.005	0	<0.005	0.0003	0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	mg/kg	0.0005	<0.005	<0.005	0	<0.005	<0.0005	0	<0.005	<0.005	0	<0.005	<0.0005	0	<0.005	<0.005	0	<0.005	<0.0005	0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	mg/kg	0.0002	<0.01	<0.01	0	<0.01	<0.0002	0	<0.01	<0.01	0	<0.01	<0.0002	0	<0.01	<0.01	0	<0.01	<0.0002	0
N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	mg/kg	0.0005	<0.005	<0.005	0	<0.005	<0.0005	0	<0.005	<0.005	0	<0.005	<0.0005	0	<0.005	<0.005	0	<0.005	<0.0005	0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	mg/kg	0.0005	<0.005	<0.005	0	<0.005	<0.0005	0	<0.005	<0.005	0	<0.005	<0.0005	0	<0.005	<0.005	0	<0.005	<0.0005	0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	mg/kg	0.0002	<0.01	<0.01	0	<0.01	<0.0002	0	<0.01	<0.01	0	<0.01	<0.0002	0	<0.01	<0.01	0	<0.01	<0.0002	0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	mg/kg	0.0005	<0.005	<0.005	0	<0.005	<0.0005	0	<0.005	<0.005	0	<0.005	<0.0005	0	<0.005	<0.005	0	<0.005	<0.0005	0
PFAS																				
Perfluorononanesulfonic acid (PFNS)	µg/kg	5	<5	<5	0	<5			<5	<5	0	<5			<5	<5	0	<5		
Sum of PFHxS and PFOS	mg/kg	0.0002	<0.005	<0.005	0	<0.005	0.0014	0	0.014	0.011	24	0.014	0.0132	6	0.0934	0.0723	25	0.0934	0.0627	39
Sum of PFAS	mg/kg	0.0002	0.2985	0.2651	12	0.2985	0.229	26	<0.05	<0.05	0	<0.05	0.0302	0	0.0934	0.0723	25	0.0934	0.0726	25
Sum of PFAS (WA DER List)	mg/kg	0.0002	0.2985	0.2651	12	0.2985	0.229	26	0.028	0.022	24	0.028	0.0298	6	0.0934	0.0723	25	0.0934	0.0707	28
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)	mg/kg	0.005	<0.005	<0.005	0	<0.005			0.014	0.011	24	0.014			0.0934	0.0723	25	0.0934		
Sum of PFAS (PFOS + PFOA)	mg/kg	0.005	<0.005	<0.005	0	<0.005			0.014	0.011	24	0.014			0.087	0.066	27	0.087		
PFAS TOPA																				
Perfluoroheptane sulfonic acid (TOPA)	µg/L	0.02					<0.02						<0.02						0.02	
Perfluorohexane sulfonic acid (TOPA)	µg/L	0.01					<0.01						0.04						0.26	
Perfluorooctane sulfonic acid (PFOS) TOPA	µg/L	0.01					0.07						0.26						1.8	
Perfluorooctanoic acid (PFOA) TOPA	µg/L	0.01					1.86						0.87						0.12	
Sum of PFASs (n=30) TOPA	ug/L	0.01					65						9.61						3.46	
Sum of PFHxS and PFOS (TOPA)	µg/L	0.01					0.07						0.3						2.06	
Sum of TOP C4 - C14 as Fluorine	µg/L	0.01					42.2						6.32						2.24	
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfo	µg/L	0.01					64.7						9.61						3.46	
4:2 FTS (TOPA)	µg/L	0.05					<0.05						<0.05						<0.05	
6:2 FTS (TOPA)	µg/L	0.05					0.2						<0.05						<0.05	
8:2 FTS (TOPA)	µg/L	0.05					0.1						<0.05						<0.05	
10:2 FTS (TOPA)	µg/L	0.05					<0.05						<0.05						<0.05	
N-Methyl perfluorooctane sulfonamide (TOPA)	µg/L	0.05					<0.05						<0.05						<0.05	
N-Methyl perfluorooctane sulfonamidoacetic acid (TOPA)	µg/L	0.02					<0.02						<0.02						<0.02	
N-Methyl perfluorooctane sulfonamidoethanol (TOPA)	µg/L	0.05					<0.05						<0.05						<0.05	

Lab Report Number Field ID Date Matrix Type			1036504	1036504	RPD	1036504	EB2332809	RPD	1036504	1036504	RPD	1036504	EB2332809	RPD	1036504	1036504	RPD	1036504	EB2332809	RPD
			B1-6	QC01		B1-6	QC02		B2-6	QC03		B2-6	QC04		B3-6	QC05		B3-6	QC06	
			16 Oct 2023	17 Oct 2023		16 Oct 2023	17 Oct 2023		17 Oct 2023	17 Oct 2023		17 Oct 2023	17 Oct 2023		17 Oct 2023	17 Oct 2023		17 Oct 2023	17 Oct 2023	
			Soil	Soil		Soil	Soil		Soil	Soil		Soil	Soil		Soil	Soil		Soil	Soil	
	Unit	EQL																		
N-Ethyl perfluorooctane sulfonamide (TOPA)	µg/L	0.05					<0.05						<0.05						<0.05	
N-Ethyl perfluorooctane sulfonamidoacetic acid (TOPA)	µg/L	0.02					<0.02						<0.02						<0.02	
N-Ethyl perfluorooctane sulfonamidoethanol (TOPA)	µg/L	0.05					<0.05						<0.05						<0.05	
Perfluorobutanoic acid (TOPA)	µg/L	0.1					11.3						1.3						0.2	
Perfluorohexanoic acid (TOPA)	µg/L	0.02					15.6						1.78						0.55	
Perfluoropentanoic acid (TOPA)	µg/L	0.02					30.1						3.29						0.32	
Perfluoroheptanoic acid (TOPA)	µg/L	0.02					5.46						1.93						0.13	
Perfluorodecanoic acid (TOPA)	µg/L	0.02					0.05						<0.02						<0.02	
Perfluorododecanoic acid (TOPA)	µg/L	0.02					<0.02						<0.02						<0.02	
Perfluorononanoic acid (TOPA)	µg/L	0.02					0.29						0.14						<0.02	
Perfluorotetradecanoic acid (TOPA)	µg/L	0.05					<0.05						<0.05						<0.05	
Perfluorotridecanoic acid (TOPA)	µg/L	0.02					<0.02						<0.02						<0.02	
Perfluoroundecanoic acid (TOPA)	µg/L	0.02					<0.02						<0.02						<0.02	
Perfluorobutanesulfonic acid (TOPA)	µg/L	0.02					<0.02						<0.02						0.03	
Perfluoropentanesulfonic acid (TOPA)	µg/L	0.02					<0.02						<0.02						0.03	
Perfluorodecanesulfonic acid (TOPA)	µg/L	0.02					<0.02						<0.02						<0.02	
Perfluorooctane sulfonamide (TOPA)	µg/L	0.02					<0.02						<0.02						<0.02	
Inorganics																				
Extractable Organofluorine (EOF)*	mg/kg	0.5	<0.5			<0.5			<0.5			<0.5			<0.5			<0.5		
Moisture Content	%	0.1					26.9						5.8						18.2	
Moisture Content (dried @ 103°C)	%	1	25	25	0	25			6.3	5.1	21	6.3			19	19	0	19		

*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: 100 (1 - 10 x EQL); 50 (10 - 20 x EQL); 30 (> 20 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

Field or Interlab Duplicates Water

			1036893	1036893	RPD	1036893	1036893	RPD	1036893	1036893	RPD
			B1-1-POST	QC19		B2-1-POST	QC21		B3-1-POST	QC23	
			Water	Water		Water	Water		Water	Water	
			19 Oct 2023	19 Oct 2023		19 Oct 2023	19 Oct 2023		19 Oct 2023	19 Oct 2023	
	Unit	EQL									
Leaching Preparation											
pH of Leaching Fluid	-	0.1	7.0	7.0	0	7.0	7.0	0	7.0	7.0	0
pH (Final)	-	0.1	11	11	0	7.9	7.7	3	6.8	9.6	34
Perfluoroalkane Carboxylic Acids											
Perfluorobutanoic acid (PFBA)	µg/L	0.05	0.36	0.40	11	<0.05	0.08	46	<0.05	<0.05	0
Perfluoropentanoic acid (PFPeA)	µg/L	0.01	0.37	0.39	5	0.08	0.05	46	<0.01	0.10	164
Perfluorohexanoic acid (PFHxA)	µg/L	0.01	0.24	0.26	8	0.09	0.04	77	<0.01	0.07	150
Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	0.12	0.13	8	0.15	0.06	86	<0.01	0.08	156
Perfluorooctanoic acid (PFOA)	µg/L	0.01	0.06	0.06	0	0.07	0.03	80	<0.01	0.04	120
Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.01	<0.01	0	0.01	<0.01	0	<0.01	<0.01	0
Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0	<0.01	<0.01	0
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0	<0.01	<0.01	0
Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0	<0.01	<0.01	0
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0	<0.01	<0.01	0
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0	<0.01	<0.01	0
Perfluoroalkane Sulfonic Acids											
Perfluoropropanesulfonic acid (PFPrS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0	<0.01	<0.01	0
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0	<0.01	<0.01	0
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0	<0.01	<0.01	0
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0	<0.01	<0.01	0
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0	<0.01	<0.01	0
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0	<0.01	<0.01	0
Perfluorononanesulfonic acid (PFNS)	ug/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0	<0.01	<0.01	0
Perfluorodecane sulfonic acid (PFDS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0	<0.01	<0.01	0
(n:2) Fluorotelomer Sulfonic Acids											
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0	<0.01	<0.01	0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0	<0.01	<0.01	0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0	<0.01	<0.01	0
Perfluoroalkyl Sulfonamides											
Perfluorooctane sulfonamide (FOSA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0
N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0
PFAS											
Sum of PFHxS and PFOS	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0	<0.01	<0.01	0
Sum of PFAS	µg/L	0.1	1.15	1.24	8	0.4	0.26	42	<0.1	0.29	97

*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

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

***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.

Laboratory Blanks

[illegible]

Laboratory Blanks

Lab Report Number	Analysis Batch	Chem Group	Chem Name	Prefix	Result	Unit	Method Name	Lab Sample ID
1028097	2023-09-27	(n:2) Fluorotelomer Sulfonic Acids	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1028097
1028097	2023-09-27	(n:2) Fluorotelomer Sulfonic Acids	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1028097
1028097	2023-09-27	Perfluoroalkyl Sulfonamides	Perfluorooctane sulfonamide (FOSA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1028097
1028097	2023-09-27	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamide (MeFOSA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1028097
1028097	2023-09-27	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	<	10	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1028097
1028097	2023-09-27	Perfluoroalkyl Sulfonamides	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1028097
1028097	2023-09-27	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1028097
1028097	2023-09-27	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	<	10	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1028097
1028097	2023-09-27	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1028097
1030176	2023-10-03	TPH	C10-C14 Fraction	<	20	mg/kg	LTM-ORG-2010 TRH C6-C40	MB_2_1030176
1030176	2023-10-03	TPH	C15-C28 Fraction	<	50	mg/kg	LTM-ORG-2010 TRH C6-C40	MB_2_1030176
1030176	2023-10-03	TPH	C29-C36 Fraction	<	50	mg/kg	LTM-ORG-2010 TRH C6-C40	MB_2_1030176
1030176	2023-10-03	TRH	>C10-C16 Fraction (F2)	<	50	mg/kg	LTM-ORG-2010 TRH C6-C40	MB_2_1030176
1030176	2023-10-03	TRH	>C16-C34 Fraction (F3)	<	100	mg/kg	LTM-ORG-2010 TRH C6-C40	MB_2_1030176
1030176	2023-10-03	TRH	>C34-C40 Fraction (F4)	<	100	mg/kg	LTM-ORG-2010 TRH C6-C40	MB_2_1030176
1030176	2023-10-04	Perfluoroalkane Carboxylic Acids	Perfluorobutanoic acid (PFBA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1030176
1030176	2023-10-04	Perfluoroalkane Carboxylic Acids	Perfluoropentanoic acid (PFPeA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1030176
1030176	2023-10-04	Perfluoroalkane Carboxylic Acids	Perfluorohexanoic acid (PFHxA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1030176
1030176	2023-10-04	Perfluoroalkane Carboxylic Acids	Perfluoroheptanoic acid (PFHpA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1030176
1030176	2023-10-04	Perfluoroalkane Carboxylic Acids	Perfluorooctanoic acid (PFOA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1030176
1030176	2023-10-04	Perfluoroalkane Carboxylic Acids	Perfluorononanoic acid (PFNA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1030176
1030176	2023-10-04	Perfluoroalkane Carboxylic Acids	Perfluorodecanoic acid (PFDA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1030176
1030176	2023-10-04	Perfluoroalkane Carboxylic Acids	Perfluoroundecanoic acid (PFUnDA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1030176
1030176	2023-10-04	Perfluoroalkane Carboxylic Acids	Perfluorododecanoic acid (PFDoDA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1030176
1030176	2023-10-04	Perfluoroalkane Carboxylic Acids	Perfluorotridecanoic acid (PFTrDA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1030176
1030176	2023-10-04	Perfluoroalkane Carboxylic Acids	Perfluorotetradecanoic acid (PFTeDA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1030176
1030176	2023-10-04	Perfluoroalkane Sulfonic Acids	Perfluoropropanesulfonic acid (PFPrS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1030176
1030176	2023-10-04	Perfluoroalkane Sulfonic Acids	Perfluorobutane sulfonic acid (PFBS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1030176
1030176	2023-10-04	Perfluoroalkane Sulfonic Acids	Perfluoropentane sulfonic acid (PFPeS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1030176
1030176	2023-10-04	Perfluoroalkane Sulfonic Acids	Perfluorohexane sulfonic acid (PFHxS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1030176
1030176	2023-10-04	Perfluoroalkane Sulfonic Acids	Perfluoroheptane sulfonic acid (PFHpS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1030176
1030176	2023-10-04	Perfluoroalkane Sulfonic Acids	Perfluorooctane sulfonic acid (PFOS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1030176
1030176	2023-10-04	Perfluoroalkane Sulfonic Acids	Perfluorononanesulfonic acid (PFNS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1030176
1030176	2023-10-04	Perfluoroalkane Sulfonic Acids	Perfluorodecane sulfonic acid (PFDS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1030176
1030176	2023-10-04	(n:2) Fluorotelomer Sulfonic Acids	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1030176
1030176	2023-10-04	(n:2) Fluorotelomer Sulfonic Acids	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	<	10	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1030176
1030176	2023-10-04	(n:2) Fluorotelomer Sulfonic Acids	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1030176
1030176	2023-10-04	(n:2) Fluorotelomer Sulfonic Acids	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1030176
1030176	2023-10-04	Perfluoroalkyl Sulfonamides	Perfluorooctane sulfonamide (FOSA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1030176
1030176	2023-10-04	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamide (MeFOSA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1030176
1030176	2023-10-04	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	<	10	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1030176
1030176	2023-10-04	Perfluoroalkyl Sulfonamides	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1030176
1030176	2023-10-04	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1030176
1030176	2023-10-04	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	<	10	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1030176
1030176	2023-10-04	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1030176
1030176	2023-10-04	TPH	C6-C9 Fraction	<	20	mg/kg	LTM-ORG-2010 TRH C6-C40	MB_4_1030176
1030176	2023-10-04	TRH	C6-C10 Fraction (F1)	<	20	mg/kg	LTM-ORG-2010 TRH C6-C40	MB_4_1030176
1030176	2023-10-04	BTEX	Benzene	<	0.1	mg/kg	USEPA SW846 8260	MB_4_1030176
1030176	2023-10-04	BTEX	Toluene	<	0.1	mg/kg	USEPA SW846 8260	MB_4_1030176
1030176	2023-10-04	BTEX	Ethylbenzene	<	0.1	mg/kg	USEPA SW846 8260	MB_4_1030176
1030176	2023-10-04	BTEX	Xylene (m & p)	<	0.2	mg/kg	USEPA SW846 8260	MB_4_1030176
1030176	2023-10-04	BTEX	Xylene (o)	<	0.1	mg/kg	USEPA SW846 8260	MB_4_1030176
1030176	2023-10-04	BTEX	Xylene Total	<	0.3	mg/kg	USEPA SW846 8260	MB_4_1030176
1030176	2023-10-04	BTEX	Naphthalene (VOC)	<	0.5	mg/kg	USEPA 8260B - MGT 350A Volatile Organics by GCMS	MB_4_1030176
1030176	2023-10-06	Perfluoroalkane Carboxylic Acids	Perfluorobutanoic acid (PFBA)	<	0.05	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_3_1030176
1030176	2023-10-06	Perfluoroalkane Carboxylic Acids	Perfluoropentanoic acid (PFPeA)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_3_1030176
1030176	2023-10-06	Perfluoroalkane Carboxylic Acids	Perfluorohexanoic acid (PFHxA)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_3_1030176
1030176	2023-10-06	Perfluoroalkane Carboxylic Acids	Perfluoroheptanoic acid (PFHpA)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_3_1030176
1030176	2023-10-06	Perfluoroalkane Carboxylic Acids	Perfluorooctanoic acid (PFOA)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_3_1030176
1030176	2023-10-06	Perfluoroalkane Carboxylic Acids	Perfluorononanoic acid (PFNA)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_3_1030176
1030176	2023-10-06	Perfluoroalkane Carboxylic Acids	Perfluorodecanoic acid (PFDA)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_3_1030176
1030176	2023-10-06	Perfluoroalkane Carboxylic Acids	Perfluoroundecanoic acid (PFUnDA)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_3_1030176
1030176	2023-10-06	Perfluoroalkane Carboxylic Acids	Perfluorododecanoic acid (PFDoDA)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_3_1030176
1030176	2023-10-06	Perfluoroalkane Carboxylic Acids	Perfluorotridecanoic acid (PFTrDA)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_3_1030176
1030176	2023-10-06	Perfluoroalkane Carboxylic Acids	Perfluorotetradecanoic acid (PFTeDA)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_3_1030176
1030176	2023-10-06	Perfluoroalkane Sulfonic Acids	Perfluoropropanesulfonic acid (PFPrS)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_3_1030176
1030176	2023-10-06	Perfluoroalkane Sulfonic Acids	Perfluorobutane sulfonic acid (PFBS)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_3_1030176
1030176	2023-10-06	Perfluoroalkane Sulfonic Acids	Perfluoropentane sulfonic acid (PFPeS)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_3_1030176
1030176	2023-10-06	Perfluoroalkane Sulfonic Acids	Perfluorohexane sulfonic acid (PFHxS)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_3_1030176
1030176	2023-10-06	Perfluoroalkane Sulfonic Acids	Perfluoroheptane sulfonic acid (PFHpS)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_3_1030176
1030176	2023-10-06	Perfluoroalkane Sulfonic Acids	Perfluorooctane sulfonic acid (PFOS)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_3_1030176
1030176	2023-10-06	Perfluoroalkane Sulfonic Acids	Perfluorononanesulfonic acid (PFNS)	<	0.01	ug/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_3_1030176
1030176	2023-10-06	Perfluoroalkane Sulfonic Acids	Perfluorodecane sulfonic acid (PFDS)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_3_1030176
1030176	2023-10-06	(n:2) Fluorotelomer Sulfonic Acids	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_3_1030176
1030176	2023-10-06	(n:2) Fluorotelomer Sulfonic Acids	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	<	0.05	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_3_1030176
1030176	2023-10-06	(n:2) Fluorotelomer Sulfonic Acids	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_3_1030176
1030176	2023-10-06	(n:2) Fluorotelomer Sulfonic Acids	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_3_1030176
1030176	2023-10-06	Perfluoroalkyl Sulfonamides	Perfluorooctane sulfonamide (FOSA)	<	0.05	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_3_1030176
1030176	2023-10-06	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamide (MeFOSA)	<	0.05	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_3_1030176
1030176	2023-10-06	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	<	0.05	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_3_1030176
1030176	2023-10-06	Perfluoroalkyl Sulfonamides	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	<	0.05	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_3_1030176
1030176	2023-10-06	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	<	0.05	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_3_1030176
1030176	2023-10-06	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	<	0.05	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_3_1030176

Laboratory Blanks

Report Number	Analysis Batch	Chem Group	Chem Name	Prefix	Result	Unit	Method Name	Lab Sample ID
1030176	2023-10-06	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	<	0.05	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_3_1030176
1036504	2023-10-23	TPH	C10-C14 Fraction	<	20	mg/kg	LTM-ORG-2010 TRH C6-C40	MB_7_1036504
1036504	2023-10-23	TPH	C15-C28 Fraction	<	50	mg/kg	LTM-ORG-2010 TRH C6-C40	MB_7_1036504
1036504	2023-10-23	TPH	C29-C36 Fraction	<	50	mg/kg	LTM-ORG-2010 TRH C6-C40	MB_7_1036504
1036504	2023-10-23	TRH	>C10-C16 Fraction (F2)	<	50	mg/kg	LTM-ORG-2010 TRH C6-C40	MB_7_1036504
1036504	2023-10-23	TRH	>C16-C34 Fraction (F3)	<	100	mg/kg	LTM-ORG-2010 TRH C6-C40	MB_7_1036504
1036504	2023-10-23	TRH	>C34-C40 Fraction (F4)	<	100	mg/kg	LTM-ORG-2010 TRH C6-C40	MB_7_1036504
1036504	2023-10-24	Perfluoroalkane Carboxylic Acids	Perfluorobutanoic acid (PFBA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036504
1036504	2023-10-24	Perfluoroalkane Carboxylic Acids	Perfluoropentanoic acid (PFPeA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036504
1036504	2023-10-24	Perfluoroalkane Carboxylic Acids	Perfluorohexanoic acid (PFHxA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036504
1036504	2023-10-24	Perfluoroalkane Carboxylic Acids	Perfluoroheptanoic acid (PFHpA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036504
1036504	2023-10-24	Perfluoroalkane Carboxylic Acids	Perfluorooctanoic acid (PFOA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036504
1036504	2023-10-24	Perfluoroalkane Carboxylic Acids	Perfluorononanoic acid (PFNA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036504
1036504	2023-10-24	Perfluoroalkane Carboxylic Acids	Perfluorodecanoic acid (PFDA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036504
1036504	2023-10-24	Perfluoroalkane Carboxylic Acids	Perfluoroundecanoic acid (PFUnDA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036504
1036504	2023-10-24	Perfluoroalkane Carboxylic Acids	Perfluorododecanoic acid (PFDoDA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036504
1036504	2023-10-24	Perfluoroalkane Carboxylic Acids	Perfluorotridecanoic acid (PFTrDA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036504
1036504	2023-10-24	Perfluoroalkane Carboxylic Acids	Perfluorotetradecanoic acid (PFTeDA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036504
1036504	2023-10-24	Perfluoroalkane Sulfonic Acids	Perfluoropropanesulfonic acid (PFPrS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036504
1036504	2023-10-24	Perfluoroalkane Sulfonic Acids	Perfluorobutane sulfonic acid (PFBS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036504
1036504	2023-10-24	Perfluoroalkane Sulfonic Acids	Perfluoropentane sulfonic acid (PFPeS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036504
1036504	2023-10-24	Perfluoroalkane Sulfonic Acids	Perfluorohexane sulfonic acid (PFHxS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036504
1036504	2023-10-24	Perfluoroalkane Sulfonic Acids	Perfluoroheptane sulfonic acid (PFHpS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036504
1036504	2023-10-24	Perfluoroalkane Sulfonic Acids	Perfluorooctane sulfonic acid (PFOS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036504
1036504	2023-10-24	Perfluoroalkane Sulfonic Acids	Perfluoronananesulfonic acid (PFNS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036504
1036504	2023-10-24	Perfluoroalkane Sulfonic Acids	Perfluorodecane sulfonic acid (PFDS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036504
1036504	2023-10-24	(n:2) Fluorotelomer Sulfonic Acids	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036504
1036504	2023-10-24	(n:2) Fluorotelomer Sulfonic Acids	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	<	10	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036504
1036504	2023-10-24	(n:2) Fluorotelomer Sulfonic Acids	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036504
1036504	2023-10-24	(n:2) Fluorotelomer Sulfonic Acids	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036504
1036504	2023-10-24	Perfluoroalkyl Sulfonamides	Perfluorooctane sulfonamide (FOSA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036504
1036504	2023-10-24	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamide (MeFOSA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036504
1036504	2023-10-24	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	<	10	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036504
1036504	2023-10-24	Perfluoroalkyl Sulfonamides	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036504
1036504	2023-10-24	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036504
1036504	2023-10-24	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	<	10	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036504
1036504	2023-10-24	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036504
1036504	2023-10-24	Organic	Total Organic Carbon	<	0.1	%	LTM-INO-4060 Total Organic Carbon in water and soil	MB_6_1036504
1036504	2023-10-24	TPH	C6-C9 Fraction	<	20	mg/kg	LTM-ORG-2010 TRH C6-C40	MB_4_1036504
1036504	2023-10-24	TRH	C6-C10 Fraction (F1)	<	20	mg/kg	LTM-ORG-2010 TRH C6-C40	MB_4_1036504
1036504	2023-10-24	BTEX	Naphthalene (VOC)	<	0.5	mg/kg	USEPA 8260B - MGT 350A Volatile Organics by GCMS	MB_4_1036504
1036504	2023-10-24	Inorganics	Alkalinity (total) as CaCO3	<	50	mg/kg	LTM-INO-4250 Alkalinity by Electrometric Titration	MB_5_1036504
1036504	2023-10-26	Inorganics	Cation Exchange Capacity	<	0.5	meq/100g	LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium P	MB_3_1036504
1036504	2023-10-30	Perfluoroalkane Carboxylic Acids	Perfluorobutanoic acid (PFBA)	<	0.05	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036504
1036504	2023-10-30	Perfluoroalkane Carboxylic Acids	Perfluoropentanoic acid (PFPeA)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036504
1036504	2023-10-30	Perfluoroalkane Carboxylic Acids	Perfluorohexanoic acid (PFHxA)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036504
1036504	2023-10-30	Perfluoroalkane Carboxylic Acids	Perfluoroheptanoic acid (PFHpA)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036504
1036504	2023-10-30	Perfluoroalkane Carboxylic Acids	Perfluorooctanoic acid (PFOA)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036504
1036504	2023-10-30	Perfluoroalkane Carboxylic Acids	Perfluorononanoic acid (PFNA)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036504
1036504	2023-10-30	Perfluoroalkane Carboxylic Acids	Perfluorodecanoic acid (PFDA)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036504
1036504	2023-10-30	Perfluoroalkane Carboxylic Acids	Perfluoroundecanoic acid (PFUnDA)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036504
1036504	2023-10-30	Perfluoroalkane Carboxylic Acids	Perfluorododecanoic acid (PFDoDA)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036504
1036504	2023-10-30	Perfluoroalkane Carboxylic Acids	Perfluorotridecanoic acid (PFTrDA)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036504
1036504	2023-10-30	Perfluoroalkane Carboxylic Acids	Perfluorotetradecanoic acid (PFTeDA)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036504
1036504	2023-10-30	Perfluoroalkane Sulfonic Acids	Perfluoropropanesulfonic acid (PFPrS)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036504
1036504	2023-10-30	Perfluoroalkane Sulfonic Acids	Perfluorobutane sulfonic acid (PFBS)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036504
1036504	2023-10-30	Perfluoroalkane Sulfonic Acids	Perfluoropentane sulfonic acid (PFPeS)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036504
1036504	2023-10-30	Perfluoroalkane Sulfonic Acids	Perfluorohexane sulfonic acid (PFHxS)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036504
1036504	2023-10-30	Perfluoroalkane Sulfonic Acids	Perfluoroheptane sulfonic acid (PFHpS)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036504
1036504	2023-10-30	Perfluoroalkane Sulfonic Acids	Perfluorooctane sulfonic acid (PFOS)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036504
1036504	2023-10-30	Perfluoroalkane Sulfonic Acids	Perfluoronananesulfonic acid (PFNS)	<	0.01	ug/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036504
1036504	2023-10-30	Perfluoroalkane Sulfonic Acids	Perfluorodecane sulfonic acid (PFDS)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036504
1036504	2023-10-30	(n:2) Fluorotelomer Sulfonic Acids	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036504
1036504	2023-10-30	(n:2) Fluorotelomer Sulfonic Acids	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	<	0.05	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036504
1036504	2023-10-30	(n:2) Fluorotelomer Sulfonic Acids	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036504
1036504	2023-10-30	(n:2) Fluorotelomer Sulfonic Acids	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036504
1036504	2023-10-30	Perfluoroalkyl Sulfonamides	Perfluorooctane sulfonamide (FOSA)	<	0.05	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036504
1036504	2023-10-30	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamide (MeFOSA)	<	0.05	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036504
1036504	2023-10-30	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	<	0.05	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036504
1036504	2023-10-30	Perfluoroalkyl Sulfonamides	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	<	0.05	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036504
1036504	2023-10-30	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	<	0.05	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036504
1036504	2023-10-30	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	<	0.05	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036504
1036504	2023-10-30	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	<	0.05	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036504
1036893	2023-11-06	Perfluoroalkane Carboxylic Acids	Perfluorobutanoic acid (PFBA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036893
1036893	2023-11-06	Perfluoroalkane Carboxylic Acids	Perfluoropentanoic acid (PFPeA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036893
1036893	2023-11-06	Perfluoroalkane Carboxylic Acids	Perfluorohexanoic acid (PFHxA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036893
1036893	2023-11-06	Perfluoroalkane Carboxylic Acids	Perfluoroheptanoic acid (PFHpA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036893
1036893	2023-11-06	Perfluoroalkane Carboxylic Acids	Perfluorooctanoic acid (PFOA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036893
1036893	2023-11-06	Perfluoroalkane Carboxylic Acids	Perfluorononanoic acid (PFNA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036893
1036893	2023-11-06	Perfluoroalkane Carboxylic Acids	Perfluorodecanoic acid (PFDA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036893
1036893	2023-11-06	Perfluoroalkane Carboxylic Acids	Perfluoroundecanoic acid (PFUnDA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036893
1036893	2023-11-06	Perfluoroalkane Carboxylic Acids	Perfluorododecanoic acid (PFDoDA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036893
1036893	2023-11-06	Perfluoroalkane Carboxylic Acids	Perfluorotridecanoic acid (PFTrDA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036893

Laboratory Blanks

Lab Report Number	Analysis Batch	Chem Group	Chem Name	Prefix	Result	Unit	Method Name	Lab Sample ID
1036893	2023-11-06	Perfluoroalkane Carboxylic Acids	Perfluorotetradecanoic acid (PFTeDA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036893
1036893	2023-11-06	Perfluoroalkane Sulfonic Acids	Perfluoropropanesulfonic acid (PFPrS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036893
1036893	2023-11-06	Perfluoroalkane Sulfonic Acids	Perfluorobutane sulfonic acid (PFBS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036893
1036893	2023-11-06	Perfluoroalkane Sulfonic Acids	Perfluoropentane sulfonic acid (PFPeS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036893
1036893	2023-11-06	Perfluoroalkane Sulfonic Acids	Perfluorohexane sulfonic acid (PFHxS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036893
1036893	2023-11-06	Perfluoroalkane Sulfonic Acids	Perfluoroheptane sulfonic acid (PFHpS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036893
1036893	2023-11-06	Perfluoroalkane Sulfonic Acids	Perfluorooctane sulfonic acid (PFOS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036893
1036893	2023-11-06	Perfluoroalkane Sulfonic Acids	Perfluorononanesulfonic acid (PFNS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036893
1036893	2023-11-06	Perfluoroalkane Sulfonic Acids	Perfluorodecane sulfonic acid (PFDS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036893
1036893	2023-11-06	(n:2) Fluorotelomer Sulfonic Acids	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036893
1036893	2023-11-06	(n:2) Fluorotelomer Sulfonic Acids	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	<	10	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036893
1036893	2023-11-06	(n:2) Fluorotelomer Sulfonic Acids	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036893
1036893	2023-11-06	(n:2) Fluorotelomer Sulfonic Acids	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036893
1036893	2023-11-06	Perfluoroalkyl Sulfonamides	Perfluorooctane sulfonamide (FOSA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036893
1036893	2023-11-06	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamide (MeFOSA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036893
1036893	2023-11-06	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	<	10	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036893
1036893	2023-11-06	Perfluoroalkyl Sulfonamides	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036893
1036893	2023-11-06	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036893
1036893	2023-11-06	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	<	10	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036893
1036893	2023-11-06	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	<	5	µg/kg	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_1_1036893
1036893	2023-11-10	Perfluoroalkane Carboxylic Acids	Perfluorobutanoic acid (PFBA)	<	0.05	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036893
1036893	2023-11-10	Perfluoroalkane Carboxylic Acids	Perfluoropentanoic acid (PFPeA)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036893
1036893	2023-11-10	Perfluoroalkane Carboxylic Acids	Perfluorohexanoic acid (PFHxA)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036893
1036893	2023-11-10	Perfluoroalkane Carboxylic Acids	Perfluoroheptanoic acid (PFHpA)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036893
1036893	2023-11-10	Perfluoroalkane Carboxylic Acids	Perfluorooctanoic acid (PFOA)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036893
1036893	2023-11-10	Perfluoroalkane Carboxylic Acids	Perfluorononanoic acid (PFNA)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036893
1036893	2023-11-10	Perfluoroalkane Carboxylic Acids	Perfluorodecanoic acid (PFDA)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036893
1036893	2023-11-10	Perfluoroalkane Carboxylic Acids	Perfluoroundecanoic acid (PFUnDA)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036893
1036893	2023-11-10	Perfluoroalkane Carboxylic Acids	Perfluorododecanoic acid (PFDoDA)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036893
1036893	2023-11-10	Perfluoroalkane Carboxylic Acids	Perfluorotridecanoic acid (PFTriDA)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036893
1036893	2023-11-10	Perfluoroalkane Carboxylic Acids	Perfluorotetradecanoic acid (PFTeDA)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036893
1036893	2023-11-10	Perfluoroalkane Sulfonic Acids	Perfluoropropanesulfonic acid (PFPrS)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036893
1036893	2023-11-10	Perfluoroalkane Sulfonic Acids	Perfluorobutane sulfonic acid (PFBS)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036893
1036893	2023-11-10	Perfluoroalkane Sulfonic Acids	Perfluoropentane sulfonic acid (PFPeS)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036893
1036893	2023-11-10	Perfluoroalkane Sulfonic Acids	Perfluorohexane sulfonic acid (PFHxS)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036893
1036893	2023-11-10	Perfluoroalkane Sulfonic Acids	Perfluoroheptane sulfonic acid (PFHpS)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036893
1036893	2023-11-10	Perfluoroalkane Sulfonic Acids	Perfluorooctane sulfonic acid (PFOS)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036893
1036893	2023-11-10	Perfluoroalkane Sulfonic Acids	Perfluorononanesulfonic acid (PFNS)	<	0.01	ug/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036893
1036893	2023-11-10	Perfluoroalkane Sulfonic Acids	Perfluorodecane sulfonic acid (PFDS)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036893
1036893	2023-11-10	(n:2) Fluorotelomer Sulfonic Acids	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036893
1036893	2023-11-10	(n:2) Fluorotelomer Sulfonic Acids	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	<	0.05	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036893
1036893	2023-11-10	(n:2) Fluorotelomer Sulfonic Acids	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036893
1036893	2023-11-10	(n:2) Fluorotelomer Sulfonic Acids	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	<	0.01	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036893
1036893	2023-11-10	Perfluoroalkyl Sulfonamides	Perfluorooctane sulfonamide (FOSA)	<	0.05	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036893
1036893	2023-11-10	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamide (MeFOSA)	<	0.05	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036893
1036893	2023-11-10	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	<	0.05	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036893
1036893	2023-11-10	Perfluoroalkyl Sulfonamides	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	<	0.05	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036893
1036893	2023-11-10	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	<	0.05	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036893
1036893	2023-11-10	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	<	0.05	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036893
1036893	2023-11-10	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	<	0.05	µg/L	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	MB_2_1036893

Matrix Spikes

Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1026894	Water	2023-09-20	W008	15/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorooctanoic acid (PFOA)	89			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310-S	MS
1026894	Water	2023-09-20	W008	15/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorodecanoic acid (PFDA)	81			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310-S	MS
1026894	Water	2023-09-20	W008	15/09/2023	Perfluoroalkane Sulfonic Acids	Perfluorodecane sulfonic acid (PFDS)	105			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310-S	MS
1026894	Water	2023-09-20	W008	15/09/2023	Perfluoroalkane Sulfonic Acids	Perfluorohexane sulfonic acid (PFHxS)	68			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310-S	MS
1026894	Water	2023-09-20	W008	15/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorobutanoic acid (PFBA)	90			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310-S	MS
1026894	Water	2023-09-20	W008	15/09/2023	Perfluoroalkane Sulfonic Acids	Perfluorobutane sulfonic acid (PFBS)	67			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310-S	MS
1026894	Water	2023-09-20	W008	15/09/2023	Perfluoroalkane Carboxylic Acids	Perfluoroheptanoic acid (PFHpA)	93			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310-S	MS
1026894	Water	2023-09-20	W008	15/09/2023	Perfluoroalkane Sulfonic Acids	Perfluoroheptane sulfonic acid (PFHpS)	62			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310-S	MS
1026894	Water	2023-09-20	W008	15/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorononanoic acid (PFNA)	88			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310-S	MS
1026894	Water	2023-09-20	W008	15/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorotetradecanoic acid (PFTeDA)	82			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310-S	MS
1026894	Water	2023-09-20	W008	15/09/2023	(n:2) Fluorotelomer Sulfonic Acids	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	91			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310-S	MS
1026894	Water	2023-09-20	W008	15/09/2023	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	83			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310-S	MS
1026894	Water	2023-09-20	W008	15/09/2023	Perfluoroalkane Sulfonic Acids	Perfluoropropanesulfonic acid (PFPrS)	131			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310-S	MS
1026894	Water	2023-09-20	W008	15/09/2023	Perfluoroalkane Sulfonic Acids	Perfluorononanesulfonic acid (PFNS)	102			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310-S	MS
1026894	Water	2023-09-20	W008	15/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorotridecanoic acid (PFTrDA)	90			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310-S	MS
1026894	Water	2023-09-20	W008	15/09/2023	Perfluoroalkyl Sulfonamides	Perfluorooctane sulfonamide (FOSA)	76			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310-S	MS
1026894	Water	2023-09-20	W008	15/09/2023	(n:2) Fluorotelomer Sulfonic Acids	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	97			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310-S	MS
1030176	Soil	2023-10-03	BT-1	28/09/2023	TPH	C10-C14 Fraction	76			LTM-ORG-2010 TRH C6-C40	B23-Se0067070-S	MS
1030176	Soil	2023-10-03	BT-1	28/09/2023	TRH	>C10-C16 Fraction (F2)	76			LTM-ORG-2010 TRH C6-C40	B23-Se0067070-S	MS
1030176	Soil	2023-10-04		25/09/2023	(n:2) Fluorotelomer Sulfonic Acids	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	69			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	N23-Se0056919-S	MS
1030176	Soil	2023-10-04		25/09/2023	Perfluoroalkane Sulfonic Acids	Perfluorooctane sulfonic acid (PFOS)	106			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	N23-Se0056919-S	MS
1030176	Soil	2023-10-04		25/09/2023	Perfluoroalkane Carboxylic Acids	Perfluoroundecanoic acid (PFUnDA)	128			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	N23-Se0056919-S	MS
1030176	Soil	2023-10-04		25/09/2023	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	136			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	N23-Se0056919-S	MS
1030176	Soil	2023-10-04		25/09/2023	Perfluoroalkyl Sulfonamides	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	63			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	N23-Se0056919-S	MS
1030176	Soil	2023-10-04		25/09/2023	Perfluoroalkane Carboxylic Acids	Perfluoropentanoic acid (PFPeA)	93			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	N23-Se0056919-S	MS
1030176	Soil	2023-10-04		25/09/2023	Perfluoroalkane Sulfonic Acids	Perfluoropentane sulfonic acid (PFPeS)	81			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	N23-Se0056919-S	MS
1030176	Soil	2023-10-04		25/09/2023	(n:2) Fluorotelomer Sulfonic Acids	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	108			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	N23-Se0056919-S	MS
1030176	Soil	2023-10-04		25/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorohexanoic acid (PFHxA)	138			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	N23-Se0056919-S	MS
1030176	Soil	2023-10-04		25/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorododecanoic acid (PFDODA)	115			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	N23-Se0056919-S	MS
1030176	Soil	2023-10-04		25/09/2023	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamide (MeFOSA)	122			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	N23-Se0056919-S	MS
1030176	Soil	2023-10-04		25/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorooctanoic acid (PFOA)	118			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	N23-Se0056919-S	MS
1030176	Soil	2023-10-04		25/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorodecanoic acid (PFDA)	93			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	N23-Se0056919-S	MS
1030176	Soil	2023-10-04		25/09/2023	Perfluoroalkane Sulfonic Acids	Perfluorodecane sulfonic acid (PFDS)	81			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	N23-Se0056919-S	MS
1030176	Soil	2023-10-04		25/09/2023	Perfluoroalkane Sulfonic Acids	Perfluorohexane sulfonic acid (PFHxS)	100			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	N23-Se0056919-S	MS
1030176	Soil	2023-10-04		25/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorobutanoic acid (PFBA)	94			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	N23-Se0056919-S	MS
1030176	Soil	2023-10-04		25/09/2023	Perfluoroalkane Sulfonic Acids	Perfluorobutane sulfonic acid (PFBS)	98			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	N23-Se0056919-S	MS
1030176	Soil	2023-10-04		25/09/2023	Perfluoroalkane Carboxylic Acids	Perfluoroheptanoic acid (PFHpA)	113			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	N23-Se0056919-S	MS
1030176	Soil	2023-10-04		25/09/2023	Perfluoroalkane Sulfonic Acids	Perfluoroheptane sulfonic acid (PFHpS)	74			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	N23-Se0056919-S	MS
1030176	Soil	2023-10-04		25/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorononanoic acid (PFNA)	140			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	N23-Se0056919-S	MS
1030176	Soil	2023-10-04		25/09/2023	(n:2) Fluorotelomer Sulfonic Acids	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	120			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	N23-Se0056919-S	MS
1030176	Soil	2023-10-04		25/09/2023	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	71			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	N23-Se0056919-S	MS
1030176	Soil	2023-10-04		25/09/2023	Perfluoroalkane Sulfonic Acids	Perfluoropropanesulfonic acid (PFPrS)	113			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	N23-Se0056919-S	MS
1030176	Soil	2023-10-04		25/09/2023	Perfluoroalkane Sulfonic Acids	Perfluorononanesulfonic acid (PFNS)	84			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	N23-Se0056919-S	MS
1030176	Soil	2023-10-04		25/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorotridecanoic acid (PFTrDA)	83			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	N23-Se0056919-S	MS
1030176	Soil	2023-10-04		25/09/2023	Perfluoroalkyl Sulfonamides	Perfluorooctane sulfonamide (FOSA)	123			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	N23-Se0056919-S	MS
1030176	Soil	2023-10-04		25/09/2023	(n:2) Fluorotelomer Sulfonic Acids	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	131			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	N23-Se0056919-S	MS
1030176	Soil	2023-10-04	BT-1	28/09/2023	BTEX	Ethylbenzene	99			USEPA SW846 8260	B23-Se0067070-S	MS
1030176	Soil	2023-10-04	BT-1	28/09/2023	BTEX	Xylene (m & p)	99			USEPA SW846 8260	B23-Se0067070-S	MS
1030176	Soil	2023-10-04	BT-1	28/09/2023	BTEX	Toluene	100			USEPA SW846 8260	B23-Se0067070-S	MS
1030176	Soil	2023-10-04	BT-1	28/09/2023	BTEX	Xylene Total	98			USEPA SW846 8260	B23-Se0067070-S	MS
1030176	Soil	2023-10-04	BT-1	28/09/2023	BTEX	Benzene	98			USEPA SW846 8260	B23-Se0067070-S	MS
1030176	Soil	2023-10-04	BT-1	28/09/2023	BTEX	Xylene (o)	96			USEPA SW846 8260	B23-Se0067070-S	MS
1030176	Soil	2023-10-04	BT-1	28/09/2023	TRH	C6-C10 Fraction (F1)	108			LTM-ORG-2010 TRH C6-C40	B23-Se0067070-S	MS
1030176	Soil	2023-10-04	BT-1	28/09/2023	TPH	C6-C9 Fraction	102			LTM-ORG-2010 TRH C6-C40	B23-Se0067070-S	MS
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	(n:2) Fluorotelomer Sulfonic Acids	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	93			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054-S	MS
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	92			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054-S	MS
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	Perfluoroalkane Sulfonic Acids	Perfluorooctane sulfonic acid (PFOS)	92			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054-S	MS
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	Perfluoroalkane Carboxylic Acids	Perfluoroundecanoic acid (PFUnDA)	89			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054-S	MS
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	101			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054-S	MS
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	Perfluoroalkane Sulfonic Acids	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	69			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054-S	MS
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	Perfluoroalkane Carboxylic Acids	Perfluoropentanoic acid (PFPeA)	120			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054-S	MS
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	Perfluoroalkane Sulfonic Acids	Perfluoropentane sulfonic acid (PFPeS)	117			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054-S	MS
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	(n:2) Fluorotelomer Sulfonic Acids	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	88			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054-S	MS
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	80			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054-S	MS
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorohexanoic acid (PFHxA)	135			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054-S	MS
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorododecanoic acid (PFDODA)	78			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054-S	MS
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamide (MeFOSA)	86			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054-S	MS
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorooctanoic acid (PFOA)	104			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054-S	MS
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorodecanoic acid (PFDA)	91			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054-S	MS
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	Perfluoroalkane Sulfonic Acids	Perfluorohexane sulfonic acid (PFHxS)	89			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054-S	MS
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorobutanoic acid (PFBA)	87			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054-S	MS
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	Perfluoroalkane Sulfonic Acids	Perfluorobutane sulfonic acid (PFBS)	88			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054-S	MS
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	Perfluoroalkane Carboxylic Acids	Perfluoroheptanoic acid (PFHpA)	105			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054-S	MS
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	Perfluoroalkane Sulfonic Acids	Perfluoroheptane sulfonic acid (PFHpS)	76			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054-S	MS
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorononanoic acid (PFNA)	103			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054-S	MS
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorotetradecanoic acid (PFTeDA)	96			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054-S	MS
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	(n:2) Fluorotelomer Sulfonic Acids	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	100			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054-S	MS
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	84			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054-S	MS
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	Perfluoroalkane Sulfonic Acids	Perfluoropropanesulfonic acid (PFPrS)	136			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054-S	MS
1030176	Soil	2023-10-06	BT-1-0-1									

Matrix Spikes

Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1030176	Soil	2023-10-10	BT-1-5-2	28/09/2023	Perfluoroalkane Carboxylic Acids	Perfluoropentanoic acid (PFPeA)	104			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068-S	MS
1030176	Soil	2023-10-10	BT-1-5-2	28/09/2023	Perfluoroalkane Sulfonic Acids	Perfluoropentane sulfonic acid (PFPeS)	60			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068-S	MS
1030176	Soil	2023-10-10	BT-1-5-2	28/09/2023	(n:2) Fluorotelomer Sulfonic Acids	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	99			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068-S	MS
1030176	Soil	2023-10-10	BT-1-5-2	28/09/2023	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	93			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068-S	MS
1030176	Soil	2023-10-10	BT-1-5-2	28/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorohexanoic acid (PFHxA)	128			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068-S	MS
1030176	Soil	2023-10-10	BT-1-5-2	28/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorododecanoic acid (PFDoDA)	64			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068-S	MS
1030176	Soil	2023-10-10	BT-1-5-2	28/09/2023	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamide (MeFOSA)	97			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068-S	MS
1030176	Soil	2023-10-10	BT-1-5-2	28/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorooctanoic acid (PFOA)	83			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068-S	MS
1030176	Soil	2023-10-10	BT-1-5-2	28/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorodecanoic acid (PFDA)	70			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068-S	MS
1030176	Soil	2023-10-10	BT-1-5-2	28/09/2023	Perfluoroalkane Sulfonic Acids	Perfluorohexane sulfonic acid (PFHxS)	111			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068-S	MS
1030176	Soil	2023-10-10	BT-1-5-2	28/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorobutanoic acid (PFBA)	66			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068-S	MS
1030176	Soil	2023-10-10	BT-1-5-2	28/09/2023	Perfluoroalkane Sulfonic Acids	Perfluorobutane sulfonic acid (PFBS)	91			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068-S	MS
1030176	Soil	2023-10-10	BT-1-5-2	28/09/2023	Perfluoroalkane Sulfonic Acids	Perfluoroheptane sulfonic acid (PFHpS)	74			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068-S	MS
1030176	Soil	2023-10-10	BT-1-5-2	28/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorononanoic acid (PFNA)	86			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068-S	MS
1030176	Soil	2023-10-10	BT-1-5-2	28/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorotetradecanoic acid (PFTeDA)	82			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068-S	MS
1030176	Soil	2023-10-10	BT-1-5-2	28/09/2023	(n:2) Fluorotelomer Sulfonic Acids	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	103			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068-S	MS
1030176	Soil	2023-10-10	BT-1-5-2	28/09/2023	Perfluoroalkane Sulfonic Acids	Perfluoropropanesulfonic acid (PFPrS)	73			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068-S	MS
1030176	Soil	2023-10-10	BT-1-5-2	28/09/2023	Perfluoroalkane Sulfonic Acids	Perfluorononanesulfonic acid (PFNS)	64			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068-S	MS
1030176	Soil	2023-10-10	BT-1-5-2	28/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorotridecanoic acid (PFTrDA)	124			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068-S	MS
1030176	Soil	2023-10-10	BT-1-5-2	28/09/2023	Perfluoroalkyl Sulfonamides	Perfluorooctane sulfonamide (FOSA)	101			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068-S	MS
1030176	Soil	2023-10-10	BT-1-5-2	28/09/2023	(n:2) Fluorotelomer Sulfonic Acids	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	120			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068-S	MS
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	77			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094-S	MS
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	Perfluoroalkane Sulfonic Acids	Perfluorooctane sulfonic acid (PFOS)	107			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094-S	MS
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	Perfluoroalkane Carboxylic Acids	Perfluoroundecanoic acid (PFUnDA)	138			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094-S	MS
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	112			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094-S	MS
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	Perfluoroalkyl Sulfonamides	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	75			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094-S	MS
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	Perfluoroalkane Carboxylic Acids	Perfluoropentanoic acid (PFPeA)	90			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094-S	MS
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	Perfluoroalkane Sulfonic Acids	Perfluoropentane sulfonic acid (PFPeS)	73			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094-S	MS
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	113			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094-S	MS
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorohexanoic acid (PFHxA)	74			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094-S	MS
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorododecanoic acid (PFDoDA)	87			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094-S	MS
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamide (MeFOSA)	119			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094-S	MS
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorooctanoic acid (PFOA)	124			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094-S	MS
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorodecanoic acid (PFDA)	116			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094-S	MS
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	Perfluoroalkane Sulfonic Acids	Perfluorodecane sulfonic acid (PFDS)	69			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094-S	MS
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	Perfluoroalkane Sulfonic Acids	Perfluorohexane sulfonic acid (PFHxS)	96			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094-S	MS
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorobutanoic acid (PFBA)	94			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094-S	MS
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	Perfluoroalkane Sulfonic Acids	Perfluorobutane sulfonic acid (PFBS)	92			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094-S	MS
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	Perfluoroalkane Carboxylic Acids	Perfluoroheptanoic acid (PFHpA)	96			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094-S	MS
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	Perfluoroalkane Sulfonic Acids	Perfluoroheptane sulfonic acid (PFHpS)	64			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094-S	MS
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorononanoic acid (PFNA)	100			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094-S	MS
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	(n:2) Fluorotelomer Sulfonic Acids	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	138			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094-S	MS
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	Perfluoroalkane Sulfonic Acids	Perfluoropropanesulfonic acid (PFPrS)	137			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094-S	MS
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	Perfluoroalkane Sulfonic Acids	Perfluorononanesulfonic acid (PFNS)	68			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094-S	MS
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorotridecanoic acid (PFTrDA)	91			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094-S	MS
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	Perfluoroalkyl Sulfonamides	Perfluorooctane sulfonamide (FOSA)	120			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094-S	MS
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	(n:2) Fluorotelomer Sulfonic Acids	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	123			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094-S	MS
1036504	Soil	2023-10-23	B1-1	17/10/2023	TRH	C6-C10 Fraction (F1)	90			LTM-ORG-2010 TRH C6-C40	B23-Occ0044755-S	MS
1036504	Soil	2023-10-23	B1-1	17/10/2023	TPH	C6-C9 Fraction	90			LTM-ORG-2010 TRH C6-C40	B23-Occ0044755-S	MS
1036504	Soil	2023-10-24		19/09/2023	(n:2) Fluorotelomer Sulfonic Acids	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	85			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	S23-Se0058788-S	MS
1036504	Soil	2023-10-24		19/09/2023	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	79			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	S23-Se0058788-S	MS
1036504	Soil	2023-10-24		19/09/2023	Perfluoroalkane Sulfonic Acids	Perfluorooctane sulfonic acid (PFOS)	89			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	S23-Se0058788-S	MS
1036504	Soil	2023-10-24		19/09/2023	Perfluoroalkane Carboxylic Acids	Perfluoroundecanoic acid (PFUnDA)	96			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	S23-Se0058788-S	MS
1036504	Soil	2023-10-24		19/09/2023	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	90			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	S23-Se0058788-S	MS
1036504	Soil	2023-10-24		19/09/2023	Perfluoroalkyl Sulfonamides	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	88			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	S23-Se0058788-S	MS
1036504	Soil	2023-10-24		19/09/2023	Perfluoroalkane Carboxylic Acids	Perfluoropentanoic acid (PFPeA)	81			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	S23-Se0058788-S	MS
1036504	Soil	2023-10-24		19/09/2023	Perfluoroalkane Sulfonic Acids	Perfluoropentane sulfonic acid (PFPeS)	91			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	S23-Se0058788-S	MS
1036504	Soil	2023-10-24		19/09/2023	(n:2) Fluorotelomer Sulfonic Acids	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	82			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	S23-Se0058788-S	MS
1036504	Soil	2023-10-24		19/09/2023	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	90			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	S23-Se0058788-S	MS
1036504	Soil	2023-10-24		19/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorohexanoic acid (PFHxA)	92			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	S23-Se0058788-S	MS
1036504	Soil	2023-10-24		19/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorododecanoic acid (PFDoDA)	102			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	S23-Se0058788-S	MS
1036504	Soil	2023-10-24		19/09/2023	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamide (MeFOSA)	110			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	S23-Se0058788-S	MS
1036504	Soil	2023-10-24		19/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorooctanoic acid (PFOA)	88			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	S23-Se0058788-S	MS
1036504	Soil	2023-10-24		19/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorodecanoic acid (PFDA)	96			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	S23-Se0058788-S	MS
1036504	Soil	2023-10-24		19/09/2023	Perfluoroalkane Sulfonic Acids	Perfluorodecane sulfonic acid (PFDS)	80			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	S23-Se0058788-S	MS
1036504	Soil	2023-10-24		19/09/2023	Perfluoroalkane Sulfonic Acids	Perfluorohexane sulfonic acid (PFHxS)	92			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	S23-Se0058788-S	MS
1036504	Soil	2023-10-24		19/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorobutanoic acid (PFBA)	87			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	S23-Se0058788-S	MS
1036504	Soil	2023-10-24		19/09/2023	Perfluoroalkane Sulfonic Acids	Perfluorobutane sulfonic acid (PFBS)	108			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	S23-Se0058788-S	MS
1036504	Soil	2023-10-24		19/09/2023	Perfluoroalkane Carboxylic Acids	Perfluoroheptanoic acid (PFHpA)	75			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	S23-Se0058788-S	MS
1036504	Soil	2023-10-24		19/09/2023	Perfluoroalkane Sulfonic Acids	Perfluoroheptane sulfonic acid (PFHpS)	114			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	S23-Se0058788-S	MS
1036504	Soil	2023-10-24		19/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorononanoic acid (PFNA)	93			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	S23-Se0058788-S	MS
1036504	Soil	2023-10-24		19/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorotetradecanoic acid (PFTeDA)	88			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	S23-Se0058788-S	MS
1036504	Soil	2023-10-24		19/09/2023	(n:2) Fluorotelomer Sulfonic Acids	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	92			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	S23-Se0058788-S	MS
1036504	Soil	2023-10-24		19/09/2023	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	103			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	S23-Se0058788-S	MS
1036504	Soil	2023-10-24		19/09/2023	Perfluoroalkane Sulfonic Acids	Perfluoropropanesulfonic acid (PFPrS)	89			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	S23-Se0058788-S	MS
1036504	Soil	2023-10-24		19/09/2023	Perfluoroalkane Sulfonic Acids	Perfluorononanesulfonic acid (PFNS)	80			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	S23-Se0058788-S	MS
1036504	Soil	2023-10-24		19/09/2023	Perfluoroalkane Carboxylic Acids	Perfluorotridecanoic acid (PFTrDA)	91			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	S23-Se0058788-S	MS
1036504	Soil	2023-10-24		19/09/2023	Perfluoroalkyl Sulfon							

Matrix Spikes

Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1036504	Soil	2023-10-26	B3-3	16/10/2023	Perfluoroalkane Sulfonic Acids	Perfluorooctane sulfonic acid (PFOS)	62			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044735-S	MS
1036504	Soil	2023-10-26	B3-3	16/10/2023	Perfluoroalkane Carboxylic Acids	Perfluoroundecanoic acid (PFUNDA)	77			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044735-S	MS
1036504	Soil	2023-10-26	B3-3	16/10/2023	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	73			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044735-S	MS
1036504	Soil	2023-10-26	B3-3	16/10/2023	Perfluoroalkane Carboxylic Acids	Perfluoropentanoic acid (PFPeA)	96			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044735-S	MS
1036504	Soil	2023-10-26	B3-3	16/10/2023	Perfluoroalkane Sulfonic Acids	Perfluoropentane sulfonic acid (PFPeS)	104			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044735-S	MS
1036504	Soil	2023-10-26	B3-3	16/10/2023	(n:2) Fluorotelomer Sulfonic Acids	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	86			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044735-S	MS
1036504	Soil	2023-10-26	B3-3	16/10/2023	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	74			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044735-S	MS
1036504	Soil	2023-10-26	B3-3	16/10/2023	Perfluoroalkane Carboxylic Acids	Perfluorohexanoic acid (PFHxA)	92			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044735-S	MS
1036504	Soil	2023-10-26	B3-3	16/10/2023	Perfluoroalkane Carboxylic Acids	Perfluorododecanoic acid (PFDoDA)	68			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044735-S	MS
1036504	Soil	2023-10-26	B3-3	16/10/2023	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamide (MeFOSA)	67			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044735-S	MS
1036504	Soil	2023-10-26	B3-3	16/10/2023	Perfluoroalkane Carboxylic Acids	Perfluorooctanoic acid (PFOA)	92			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044735-S	MS
1036504	Soil	2023-10-26	B3-3	16/10/2023	Perfluoroalkane Carboxylic Acids	Perfluorodecanoic acid (PFDA)	85			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044735-S	MS
1036504	Soil	2023-10-26	B3-3	16/10/2023	Perfluoroalkane Sulfonic Acids	Perfluorodecane sulfonic acid (PFDS)	66			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044735-S	MS
1036504	Soil	2023-10-26	B3-3	16/10/2023	Perfluoroalkane Sulfonic Acids	Perfluorohexane sulfonic acid (PFHxS)	109			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044735-S	MS
1036504	Soil	2023-10-26	B3-3	16/10/2023	Perfluoroalkane Carboxylic Acids	Perfluorobutanoic acid (PFBA)	102			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044735-S	MS
1036504	Soil	2023-10-26	B3-3	16/10/2023	Perfluoroalkane Sulfonic Acids	Perfluorobutane sulfonic acid (PFBS)	91			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044735-S	MS
1036504	Soil	2023-10-26	B3-3	16/10/2023	Perfluoroalkane Carboxylic Acids	Perfluoroheptanoic acid (PFHpA)	94			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044735-S	MS
1036504	Soil	2023-10-26	B3-3	16/10/2023	Perfluoroalkane Sulfonic Acids	Perfluoroheptane sulfonic acid (PFHpS)	90			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044735-S	MS
1036504	Soil	2023-10-26	B3-3	16/10/2023	Perfluoroalkane Carboxylic Acids	Perfluorononanoic acid (PFNA)	82			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044735-S	MS
1036504	Soil	2023-10-26	B3-3	16/10/2023	(n:2) Fluorotelomer Sulfonic Acids	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	80			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044735-S	MS
1036504	Soil	2023-10-26	B3-3	16/10/2023	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	62			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044735-S	MS
1036504	Soil	2023-10-26	B3-3	16/10/2023	Perfluoroalkane Sulfonic Acids	Perfluoropropanesulfonic acid (PFPrS)	83			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044735-S	MS
1036504	Soil	2023-10-26	B3-3	16/10/2023	Perfluoroalkane Sulfonic Acids	Perfluorononanesulfonic acid (PFNS)	82			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044735-S	MS
1036504	Soil	2023-10-26	B3-3	16/10/2023	Perfluoroalkyl Sulfonamides	Perfluorooctane sulfonamide (FOSA)	87			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044735-S	MS
1036504	Soil	2023-10-26	B3-3	16/10/2023	(n:2) Fluorotelomer Sulfonic Acids	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	78			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044735-S	MS

Matrix Spikes

Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1036893	Soil	2023-11-02	B1-1-POST	19/10/2023	Perfluoroalkyl Sulfonamides	Perfluorooctane sulfonamide (FOSA)	121			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047557-S	MS
1036893	Soil	2023-11-02	B1-1-POST	19/10/2023	(n:2) Fluorotelomer Sulfonic Acids	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	67			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047557-S	MS
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	62			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047641-S	MS
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	Perfluoroalkane Sulfonic Acids	Perfluorooctane sulfonic acid (PFOS)	88			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047641-S	MS
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	74			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047641-S	MS
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	Perfluoroalkyl Sulfonamides	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	62			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047641-S	MS
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	Perfluoroalkane Carboxylic Acids	Perfluoropentanoic acid (PFPeA)	95			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047641-S	MS
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	Perfluoroalkane Sulfonic Acids	Perfluoropentane sulfonic acid (PFPeS)	107			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047641-S	MS
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	(n:2) Fluorotelomer Sulfonic Acids	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	78			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047641-S	MS
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	Perfluoroalkane Carboxylic Acids	Perfluorohexanoic acid (PFHxA)	91			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047641-S	MS
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	Perfluoroalkane Carboxylic Acids	Perfluorooctanoic acid (PFOA)	92			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047641-S	MS
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	Perfluoroalkane Carboxylic Acids	Perfluorodecanoic acid (PFDA)	65			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047641-S	MS
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	Perfluoroalkane Sulfonic Acids	Perfluorohexane sulfonic acid (PFHxS)	92			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047641-S	MS
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	Perfluoroalkane Carboxylic Acids	Perfluorobutanoic acid (PFBA)	81			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047641-S	MS
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	Perfluoroalkane Sulfonic Acids	Perfluorobutane sulfonic acid (PFBS)	93			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047641-S	MS
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	Perfluoroalkane Carboxylic Acids	Perfluoroheptanoic acid (PFHpA)	79			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047641-S	MS
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	Perfluoroalkane Sulfonic Acids	Perfluoroheptane sulfonic acid (PFHpS)	80			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047641-S	MS
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	Perfluoroalkane Carboxylic Acids	Perfluorononanoic acid (PFNA)	80			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047641-S	MS
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	Perfluoroalkane Carboxylic Acids	Perfluorotetradecanoic acid (PFTeDA)	61			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047641-S	MS
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	(n:2) Fluorotelomer Sulfonic Acids	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	82			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047641-S	MS
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	Perfluoroalkane Sulfonic Acids	Perfluoropropanesulfonic acid (PFPrS)	64			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047641-S	MS
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	Perfluoroalkane Sulfonic Acids	Perfluorononanesulfonic acid (PFNS)	69			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047641-S	MS
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	Perfluoroalkyl Sulfonamides	Perfluorooctane sulfonamide (FOSA)	76			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047641-S	MS
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	(n:2) Fluorotelomer Sulfonic Acids	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	85			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047641-S	MS
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	(n:2) Fluorotelomer Sulfonic Acids	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	113			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047569-S	MS
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	104			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047569-S	MS
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	Perfluoroalkane Sulfonic Acids	Perfluorooctane sulfonic acid (PFOS)	125			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047569-S	MS
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	Perfluoroalkane Carboxylic Acids	Perfluoroundecanoic acid (PFUnDA)	102			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047569-S	MS
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	89			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047569-S	MS
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	Perfluoroalkyl Sulfonamides	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	93			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047569-S	MS
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	Perfluoroalkane Carboxylic Acids	Perfluoropentanoic acid (PFPeA)	111			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047569-S	MS
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	Perfluoroalkane Sulfonic Acids	Perfluoropentane sulfonic acid (PFPeS)	113			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047569-S	MS
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	(n:2) Fluorotelomer Sulfonic Acids	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	71			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047569-S	MS
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	83			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047569-S	MS
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	Perfluoroalkane Carboxylic Acids	Perfluorododecanoic acid (PFDDoDA)	97			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047569-S	MS
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamide (MeFOSA)	116			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047569-S	MS
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	Perfluoroalkane Carboxylic Acids	Perfluorooctanoic acid (PFOA)	106			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047569-S	MS
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	Perfluoroalkane Carboxylic Acids	Perfluorodecanoic acid (PFDA)	97			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047569-S	MS
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	Perfluoroalkane Sulfonic Acids	Perfluorodecane sulfonic acid (PFDS)	92			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047569-S	MS
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	Perfluoroalkane Sulfonic Acids	Perfluorohexane sulfonic acid (PFHxS)	99			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047569-S	MS
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	Perfluoroalkane Carboxylic Acids	Perfluorobutanoic acid (PFBA)	96			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047569-S	MS
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	Perfluoroalkane Sulfonic Acids	Perfluorobutane sulfonic acid (PFBS)	102			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047569-S	MS
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	Perfluoroalkane Carboxylic Acids	Perfluoroheptanoic acid (PFHpA)	61			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047569-S	MS
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	Perfluoroalkane Sulfonic Acids	Perfluoroheptane sulfonic acid (PFHpS)	103			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047569-S	MS
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	Perfluoroalkane Carboxylic Acids	Perfluorononanoic acid (PFNA)	101			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047569-S	MS
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	Perfluoroalkane Carboxylic Acids	Perfluorotetradecanoic acid (PFTeDA)	103			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047569-S	MS
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	(n:2) Fluorotelomer Sulfonic Acids	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	121			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047569-S	MS
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	104			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047569-S	MS
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	Perfluoroalkane Sulfonic Acids	Perfluoropropanesulfonic acid (PFPrS)	93			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047569-S	MS
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	Perfluoroalkane Sulfonic Acids	Perfluorononanesulfonic acid (PFNS)	94			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047569-S	MS
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	Perfluoroalkane Carboxylic Acids	Perfluorotridecanoic acid (PFTrDA)	111			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047569-S	MS
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	Perfluoroalkyl Sulfonamides	Perfluorooctane sulfonamide (FOSA)	107			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047569-S	MS
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	(n:2) Fluorotelomer Sulfonic Acids	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	87			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047569-S	MS
EB2332809	Soil	2023-10-27		17/10/2023 17:55	(n:2) Fluorotelomer Sulfonic Acids	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	91.2	70	130	EP231D: (n:2) Fluorotelomer Sulfonic Acids	QC-5376882-006	MS
EB2332809	Soil	2023-10-27		17/10/2023 17:55	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	94.6	70	130	EP231C: Perfluoroalkyl Sulfonamides	QC-5376882-006	MS
EB2332809	Soil	2023-10-27		17/10/2023 17:55	Perfluoroalkane Sulfonic Acids	Perfluorooctane sulfonic acid (PFOS)	70	68	136	EP231A: Perfluoroalkyl Sulfonic Acids	QC-5376882-006	MS
EB2332809	Soil	2023-10-27		17/10/2023 17:55	Perfluoroalkane Carboxylic Acids	Perfluoroundecanoic acid (PFUnDA)	86.4	64	136	EP231B: Perfluoroalkyl Carboxylic Acids	QC-5376882-006	MS
EB2332809	Soil	2023-10-27		17/10/2023 17:55	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	72.4	63	144	EP231C: Perfluoroalkyl Sulfonamides	QC-5376882-006	MS
EB2332809	Soil	2023-10-27		17/10/2023 17:55	Perfluoroalkyl Sulfonamides	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	93.1	70	130	EP231C: Perfluoroalkyl Sulfonamides	QC-5376882-006	MS
EB2332809	Soil	2023-10-27		17/10/2023 17:55	Perfluoroalkane Sulfonic Acids	Perfluoropentane sulfonic acid (PFPeS)	84.2	73	123	EP231A: Perfluoroalkyl Sulfonic Acids	QC-5376882-006	MS
EB2332809	Soil	2023-10-27		17/10/2023 17:55	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	73.2	61	139	EP231C: Perfluoroalkyl Sulfonamides	QC-5376882-006	MS
EB2332809	Soil	2023-10-27		17/10/2023 17:55	Perfluoroalkane Carboxylic Acids	Perfluorododecanoic acid (PFDDoDA)	80	69	135	EP231B: Perfluoroalkyl Carboxylic Acids	QC-5376882-006	MS
EB2332809	Soil	2023-10-27		17/10/2023 17:55	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamide (MeFOSA)	98.1	70	130	EP231C: Perfluoroalkyl Sulfonamides	QC-5376882-006	MS
EB2332809	Soil	2023-10-27		17/10/2023 17:55	Perfluoroalkane Carboxylic Acids	Perfluorooctanoic acid (PFOA)	75.3	69	133	EP231B: Perfluoroalkyl Carboxylic Acids	QC-5376882-006	MS
EB2332809	Soil	2023-10-27		17/10/2023 17:55	Perfluoroalkane Carboxylic Acids	Perfluorodecanoic acid (PFDA)	92.8	69	133	EP231B: Perfluoroalkyl Carboxylic Acids	QC-5376882-006	MS
EB2332809	Soil	2023-10-27		17/10/2023 17:55	Perfluoroalkane Sulfonic Acids	Perfluorodecane sulfonic acid (PFDS)	87.1	59	134	EP231A: Perfluoroalkyl Sulfonic Acids	QC-5376882-006	MS
EB2332809	Soil	2023-10-27		17/10/2023 17:55	Perfluoroalkane Sulfonic Acids	Perfluorohexane sulfonic acid (PFHxS)	83.4	67	130	EP231A: Perfluoroalkyl Sulfonic Acids	QC-5376882-006	MS
EB2332809	Soil	2023-10-27		17/10/2023 17:55	Perfluoroalkane Sulfonic Acids	Perfluorobutane sulfonic acid (PFBS)	85.9	72	128	EP231A: Perfluoroalkyl Sulfonic Acids	QC-5376882-006	MS
EB2332809	Soil	2023-10-27		17/10/2023 17:55	Perfluoroalkane Sulfonic Acids	Perfluoroheptane sulfonic acid (PFHpS)	86.6	70	132	EP231A: Perfluoroalkyl Sulfonic Acids	QC-5376882-006	MS
EB2332809	Soil	2023-10-27		17/10/2023 17:55	Perfluoroalkane Carboxylic Acids	Perfluorononanoic acid (PFNA)	87.2	72	129	EP231B: Perfluoroalkyl Carboxylic Acids	QC-5376882-006	MS
EB2332809	Soil	2023-10-27		17/10/2023 17:55	Perfluoroalkane Carboxylic Acids	Perfluorotetradecanoic acid (PFTeDA)	80	69	133	EP231B: Perfluoroalkyl Carboxylic Acids	QC-5376882-006	MS
EB2332809	Soil	2023-10-27		17/10/2023 17:55	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	89.3	70	130	EP231C: Perfluoroalkyl Sulfonamides	QC-5376882-006	MS
EB2332809	Soil	2023-10-27		17/10/2023 17:55	Perfluoroalkane Carboxylic Acids	Perfluorotridecanoic acid (PFTrDA)	92	66	139	EP231B: Perfluoroalkyl Carboxylic Acids	QC-5376882-006	MS
EB2332809	Soil	2023-10-27		17/10/2023 17:55	Perfluoroalkyl Sulfonamides	Perfluorooctane sulfonamide (FOSA)	102	48	128	EP231C: Perfluoroalkyl Sulfonamides	QC-5376882-006	MS
EB2332809	Soil	2023-10-27		17/10/2023 17:55	(n:2) Fluorotelomer Sulfonic Acids	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	71.7	62	145	EP231D: (n:2) Fluorotelomer Sulfonic Acids	QC-	

Matrix Spike Recoveries. Where no lab LCL and UCL is available, user defined limits between 60% and 140% have been adopted for non-compliance.

Lab Control Samples

Lab Report Number	Matrix Type	Analysis Batch	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1030176	Soil	2023-10-04	Perfluoroalkane Carboxylic Acids	Perfluorotetradecanoic acid (PFTeDA)	141			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1030176	LCS
1030176	Soil	2023-10-04	(n:2) Fluorotelomer Sulfonic Acids	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	52			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1030176	LCS
1030176	Soil	2023-10-06	Perfluoroalkane Carboxylic Acids	Perfluorotridecanoic acid (PFTrDA)	58			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1030176	LCS
1030176	Soil	2023-10-06	Perfluoroalkane Sulfonic Acids	Perfluorodecane sulfonic acid (PFDS)	57			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1030176	LCS
1030176	Soil	2023-10-06	(n:2) Fluorotelomer Sulfonic Acids	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	54			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1030176	LCS
1030176	Soil	2023-10-06	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	59			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1030176	LCS
1030176	Soil	2023-10-06	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	56			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1030176	LCS
1036504	Soil	2023-10-30	Perfluoroalkane Carboxylic Acids	Perfluorododecanoic acid (PFDoDA)	53			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_2_1036504	LCS
1036504	Soil	2023-10-30	Perfluoroalkane Sulfonic Acids	Perfluorodecane sulfonic acid (PFDS)	51			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_2_1036504	LCS
1036504	Soil	2023-10-30	(n:2) Fluorotelomer Sulfonic Acids	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	54			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_2_1036504	LCS
1036504	Soil	2023-10-30	Perfluoroalkyl Sulfonamides	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	53			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_2_1036504	LCS
1036504	Soil	2023-10-30	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	54			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_2_1036504	LCS
1036504	Soil	2023-10-30	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	52			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_2_1036504	LCS
EB2332809	Water	2023-10-26	PFAS TOPA	6:2 FTS (TOPA)	-1	0	200	EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids	QC-5382998-002	LCS
EB2332950	Water	2023-10-26	PFAS TOPA	6:2 FTS (TOPA)	-1	0	200	EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids	QC-5382998-002	LCS
1026894	Soil	2023-09-20	Perfluoroalkane Carboxylic Acids	Perfluorobutanoic acid (PFBA)	90			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_4_1026894	LCS
1026894	Soil	2023-09-20	Perfluoroalkane Carboxylic Acids	Perfluoropentanoic acid (PFPeA)	88			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_4_1026894	LCS
1026894	Soil	2023-09-20	Perfluoroalkane Carboxylic Acids	Perfluorohexanoic acid (PFHxA)	101			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_4_1026894	LCS
1026894	Soil	2023-09-20	Perfluoroalkane Carboxylic Acids	Perfluoroheptanoic acid (PFHpA)	109			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_4_1026894	LCS
1026894	Soil	2023-09-20	Perfluoroalkane Carboxylic Acids	Perfluorooctanoic acid (PFOA)	102			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_4_1026894	LCS
1026894	Soil	2023-09-20	Perfluoroalkane Carboxylic Acids	Perfluorononanoic acid (PFNA)	92			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_4_1026894	LCS
1026894	Soil	2023-09-20	Perfluoroalkane Carboxylic Acids	Perfluorodecanoic acid (PFDA)	95			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_4_1026894	LCS
1026894	Soil	2023-09-20	Perfluoroalkane Carboxylic Acids	Perfluoroundecanoic acid (PFUnDA)	107			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_4_1026894	LCS
1026894	Soil	2023-09-20	Perfluoroalkane Carboxylic Acids	Perfluorododecanoic acid (PFDoDA)	96			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_4_1026894	LCS
1026894	Soil	2023-09-20	Perfluoroalkane Carboxylic Acids	Perfluorotridecanoic acid (PFTrDA)	94			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_4_1026894	LCS
1026894	Soil	2023-09-20	Perfluoroalkane Carboxylic Acids	Perfluorotetradecanoic acid (PFTeDA)	94			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_4_1026894	LCS
1026894	Soil	2023-09-20	Perfluoroalkane Sulfonic Acids	Perfluoropropanesulfonic acid (PFPrS)	77			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_4_1026894	LCS
1026894	Soil	2023-09-20	Perfluoroalkane Sulfonic Acids	Perfluorobutane sulfonic acid (PFBS)	87			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_4_1026894	LCS
1026894	Soil	2023-09-20	Perfluoroalkane Sulfonic Acids	Perfluoropentane sulfonic acid (PFPeS)	83			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_4_1026894	LCS
1026894	Soil	2023-09-20	Perfluoroalkane Sulfonic Acids	Perfluorohexane sulfonic acid (PFHxS)	101			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_4_1026894	LCS
1026894	Soil	2023-09-20	Perfluoroalkane Sulfonic Acids	Perfluoroheptane sulfonic acid (PFHpS)	109			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_4_1026894	LCS
1026894	Soil	2023-09-20	Perfluoroalkane Sulfonic Acids	Perfluorooctane sulfonic acid (PFOS)	113			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_4_1026894	LCS
1026894	Soil	2023-09-20	Perfluoroalkane Sulfonic Acids	Perfluorononanesulfonic acid (PFNS)	116			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_4_1026894	LCS
1026894	Soil	2023-09-20	Perfluoroalkane Sulfonic Acids	Perfluorodecane sulfonic acid (PFDS)	96			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_4_1026894	LCS
1026894	Soil	2023-09-20	(n:2) Fluorotelomer Sulfonic Acids	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	88			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_4_1026894	LCS
1026894	Soil	2023-09-20	(n:2) Fluorotelomer Sulfonic Acids	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	85			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_4_1026894	LCS
1026894	Soil	2023-09-20	(n:2) Fluorotelomer Sulfonic Acids	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	92			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_4_1026894	LCS
1026894	Soil	2023-09-20	(n:2) Fluorotelomer Sulfonic Acids	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	98			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_4_1026894	LCS
1026894	Soil	2023-09-20	Perfluoroalkyl Sulfonamides	Perfluorooctane sulfonamide (FOSA)	100			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_4_1026894	LCS
1026894	Soil	2023-09-20	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamide (MeFOSA)	101			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_4_1026894	LCS
1026894	Soil	2023-09-20	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	99			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_4_1026894	LCS
1026894	Soil	2023-09-20	Perfluoroalkyl Sulfonamides	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	110			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_4_1026894	LCS
1026894	Soil	2023-09-20	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	104			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_4_1026894	LCS
1026894	Soil	2023-09-20	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	92			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_4_1026894	LCS
1026894	Soil	2023-09-20	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	84			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_4_1026894	LCS
1026894	Water	2023-09-20	Perfluoroalkane Carboxylic Acids	Perfluorobutanoic acid (PFBA)	92			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1026894	LCS
1026894	Water	2023-09-20	Perfluoroalkane Carboxylic Acids	Perfluoropentanoic acid (PFPeA)	99			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1026894	LCS
1026894	Water	2023-09-20	Perfluoroalkane Carboxylic Acids	Perfluorohexanoic acid (PFHxA)	88			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1026894	LCS
1026894	Water	2023-09-20	Perfluoroalkane Carboxylic Acids	Perfluoroheptanoic acid (PFHpA)	95			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1026894	LCS
1026894	Water	2023-09-20	Perfluoroalkane Carboxylic Acids	Perfluorooctanoic acid (PFOA)	94			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1026894	LCS
1026894	Water	2023-09-20	Perfluoroalkane Carboxylic Acids	Perfluorononanoic acid (PFNA)	95			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1026894	LCS
1026894	Water	2023-09-20	Perfluoroalkane Carboxylic Acids	Perfluorodecanoic acid (PFDA)	82			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1026894	LCS
1026894	Water	2023-09-20	Perfluoroalkane Carboxylic Acids	Perfluoroundecanoic acid (PFUnDA)	88			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1026894	LCS
1026894	Water	2023-09-20	Perfluoroalkane Carboxylic Acids	Perfluorododecanoic acid (PFDoDA)	91			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1026894	LCS
1026894	Water	2023-09-20	Perfluoroalkane Carboxylic Acids	Perfluorotridecanoic acid (PFTrDA)	95			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1026894	LCS
1026894	Water	2023-09-20	Perfluoroalkane Carboxylic Acids	Perfluorotetradecanoic acid (PFTeDA)	93			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1026894	LCS
1026894	Water	2023-09-20	Perfluoroalkane Sulfonic Acids	Perfluoropropanesulfonic acid (PFPrS)	81			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1026894	LCS
1026894	Water	2023-09-20	Perfluoroalkane Sulfonic Acids	Perfluorobutane sulfonic acid (PFBS)	79			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1026894	LCS
1026894	Water	2023-09-20	Perfluoroalkane Sulfonic Acids	Perfluoropentane sulfonic acid (PFPeS)	79			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1026894	LCS
1026894	Water	2023-09-20	Perfluoroalkane Sulfonic Acids	Perfluorohexane sulfonic acid (PFHxS)	74			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1026894	LCS
1026894	Water	2023-09-20	Perfluoroalkane Sulfonic Acids	Perfluoroheptane sulfonic acid (PFHpS)	87			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1026894	LCS
1026894	Water	2023-09-20	Perfluoroalkane Sulfonic Acids	Perfluorooctane sulfonic acid (PFOS)	88			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1026894	LCS
1026894	Water	2023-09-20	Perfluoroalkane Sulfonic Acids	Perfluorononanesulfonic acid (PFNS)	100			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1026894	LCS
1026894	Water	2023-09-20	Perfluoroalkane Sulfonic Acids	Perfluorodecane sulfonic acid (PFDS)	89			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1026894	LCS
1026894	Water	2023-09-20	(n:2) Fluorotelomer Sulfonic Acids	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	94			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1026894	LCS
1026894	Water	2023-09-20	(n:2) Fluorotelomer Sulfonic Acids	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	89			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1026894	LCS
1026894	Water	2023-09-20	(n:2) Fluorotelomer Sulfonic Acids	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	95			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1026894	LCS
1026894	Water	2023-09-20	(n:2) Fluorotelomer Sulfonic Acids	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	97			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1026894	LCS
1026894	Water	2023-09-20	Perfluoroalkyl Sulfonamides	Perfluorooctane sulfonamide (FOSA)	80			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1026894	LCS
1026894	Water	2023-09-20	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamide (MeFOSA)	97			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1026894	LCS
1026894	Water	2023-09-20	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	90			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1026894	LCS

Lab Control Samples

Lab Report Number	Matrix Type	Analysis Batch	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1026894	Water	2023-09-20	Perfluoroalkyl Sulfonamides	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	104			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1026894	LCS
1026894	Water	2023-09-20	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	84			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1026894	LCS
1026894	Water	2023-09-20	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	91			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1026894	LCS
1026894	Water	2023-09-20	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	84			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1026894	LCS
1026894	Water	2023-09-20	TPH	C6-C9 Fraction	104			LTM-ORG-2010 TRH C6-C40	LCS_1_1026894	LCS
1026894	Water	2023-09-20	TPH	C10-C14 Fraction	73			LTM-ORG-2010 TRH C6-C40	LCS_2_1026894	LCS
1026894	Water	2023-09-20	TRH	C6-C10 Fraction (F1)	107			LTM-ORG-2010 TRH C6-C40	LCS_1_1026894	LCS
1026894	Water	2023-09-20	TRH	>C10-C16 Fraction (F2)	72			LTM-ORG-2010 TRH C6-C40	LCS_2_1026894	LCS
1026894	Water	2023-09-20	BTEX	Benzene	101			USEPA SW846 8260	LCS_1_1026894	LCS
1026894	Water	2023-09-20	BTEX	Toluene	104			USEPA SW846 8260	LCS_1_1026894	LCS
1026894	Water	2023-09-20	BTEX	Ethylbenzene	110			USEPA SW846 8260	LCS_1_1026894	LCS
1026894	Water	2023-09-20	BTEX	Xylene (m & p)	112			USEPA SW846 8260	LCS_1_1026894	LCS
1026894	Water	2023-09-20	BTEX	Xylene Total	111			USEPA SW846 8260	LCS_1_1026894	LCS
1030176	Soil	2023-10-03	TPH	C10-C14 Fraction	75			LTM-ORG-2010 TRH C6-C40	LCS_2_1030176	LCS
1030176	Soil	2023-10-03	TRH	>C10-C16 Fraction (F2)	75			LTM-ORG-2010 TRH C6-C40	LCS_2_1030176	LCS
1030176	Soil	2023-10-04	Perfluoroalkane Carboxylic Acids	Perfluorobutanoic acid (PFBA)	101			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1030176	LCS
1030176	Soil	2023-10-04	Perfluoroalkane Carboxylic Acids	Perfluoropentanoic acid (PFPeA)	100			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1030176	LCS
1030176	Soil	2023-10-04	Perfluoroalkane Carboxylic Acids	Perfluorohexanoic acid (PFHxA)	132			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1030176	LCS
1030176	Soil	2023-10-04	Perfluoroalkane Carboxylic Acids	Perfluoroheptanoic acid (PFHpA)	104			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1030176	LCS
1030176	Soil	2023-10-04	Perfluoroalkane Carboxylic Acids	Perfluorooctanoic acid (PFOA)	117			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1030176	LCS
1030176	Soil	2023-10-04	Perfluoroalkane Carboxylic Acids	Perfluorononanoic acid (PFNA)	138			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1030176	LCS
1030176	Soil	2023-10-04	Perfluoroalkane Carboxylic Acids	Perfluorodecanoic acid (PFDA)	115			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1030176	LCS
1030176	Soil	2023-10-04	Perfluoroalkane Carboxylic Acids	Perfluoroundecanoic acid (PFUnDA)	139			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1030176	LCS
1030176	Soil	2023-10-04	Perfluoroalkane Carboxylic Acids	Perfluorododecanoic acid (PFDoDA)	122			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1030176	LCS
1030176	Soil	2023-10-04	Perfluoroalkane Carboxylic Acids	Perfluorotridecanoic acid (PFTrDA)	85			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1030176	LCS
1030176	Soil	2023-10-04	Perfluoroalkane Sulfonic Acids	Perfluoropropanesulfonic acid (PFPrS)	127			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1030176	LCS
1030176	Soil	2023-10-04	Perfluoroalkane Sulfonic Acids	Perfluorobutane sulfonic acid (PFBS)	101			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1030176	LCS
1030176	Soil	2023-10-04	Perfluoroalkane Sulfonic Acids	Perfluoropentane sulfonic acid (PFPeS)	78			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1030176	LCS
1030176	Soil	2023-10-04	Perfluoroalkane Sulfonic Acids	Perfluorohexane sulfonic acid (PFHxS)	110			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1030176	LCS
1030176	Soil	2023-10-04	Perfluoroalkane Sulfonic Acids	Perfluoroheptane sulfonic acid (PFHpS)	89			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1030176	LCS
1030176	Soil	2023-10-04	Perfluoroalkane Sulfonic Acids	Perfluorooctane sulfonic acid (PFOS)	104			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1030176	LCS
1030176	Soil	2023-10-04	Perfluoroalkane Sulfonic Acids	Perfluorononanesulfonic acid (PFNS)	84			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1030176	LCS
1030176	Soil	2023-10-04	Perfluoroalkane Sulfonic Acids	Perfluorodecane sulfonic acid (PFDS)	100			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1030176	LCS
1030176	Soil	2023-10-04	(n:2) Fluorotelomer Sulfonic Acids	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	130			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1030176	LCS
1030176	Soil	2023-10-04	(n:2) Fluorotelomer Sulfonic Acids	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	129			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1030176	LCS
1030176	Soil	2023-10-04	(n:2) Fluorotelomer Sulfonic Acids	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	130			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1030176	LCS
1030176	Soil	2023-10-04	Perfluoroalkyl Sulfonamides	Perfluorooctane sulfonamide (FOSA)	112			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1030176	LCS
1030176	Soil	2023-10-04	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamide (MeFOSA)	137			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1030176	LCS
1030176	Soil	2023-10-04	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	134			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1030176	LCS
1030176	Soil	2023-10-04	Perfluoroalkyl Sulfonamides	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	71			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1030176	LCS
1030176	Soil	2023-10-04	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	100			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1030176	LCS
1030176	Soil	2023-10-04	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	126			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1030176	LCS
1030176	Soil	2023-10-04	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	79			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1030176	LCS
1030176	Soil	2023-10-04	TPH	C6-C9 Fraction	119			LTM-ORG-2010 TRH C6-C40	LCS_4_1030176	LCS
1030176	Soil	2023-10-04	TRH	C6-C10 Fraction (F1)	118			LTM-ORG-2010 TRH C6-C40	LCS_4_1030176	LCS
1030176	Soil	2023-10-04	BTEX	Benzene	114			USEPA SW846 8260	LCS_4_1030176	LCS
1030176	Soil	2023-10-04	BTEX	Toluene	116			USEPA SW846 8260	LCS_4_1030176	LCS
1030176	Soil	2023-10-04	BTEX	Ethylbenzene	112			USEPA SW846 8260	LCS_4_1030176	LCS
1030176	Soil	2023-10-04	BTEX	Xylene (m & p)	113			USEPA SW846 8260	LCS_4_1030176	LCS
1030176	Soil	2023-10-04	BTEX	Xylene Total	113			USEPA SW846 8260	LCS_4_1030176	LCS
1030176	Soil	2023-10-06	Perfluoroalkane Carboxylic Acids	Perfluorobutanoic acid (PFBA)	90			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1030176	LCS
1030176	Soil	2023-10-06	Perfluoroalkane Carboxylic Acids	Perfluoropentanoic acid (PFPeA)	106			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1030176	LCS
1030176	Soil	2023-10-06	Perfluoroalkane Carboxylic Acids	Perfluorohexanoic acid (PFHxA)	114			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1030176	LCS
1030176	Soil	2023-10-06	Perfluoroalkane Carboxylic Acids	Perfluoroheptanoic acid (PFHpA)	91			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1030176	LCS
1030176	Soil	2023-10-06	Perfluoroalkane Carboxylic Acids	Perfluorooctanoic acid (PFOA)	125			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1030176	LCS
1030176	Soil	2023-10-06	Perfluoroalkane Carboxylic Acids	Perfluorononanoic acid (PFNA)	107			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1030176	LCS
1030176	Soil	2023-10-06	Perfluoroalkane Carboxylic Acids	Perfluorodecanoic acid (PFDA)	91			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1030176	LCS
1030176	Soil	2023-10-06	Perfluoroalkane Carboxylic Acids	Perfluoroundecanoic acid (PFUnDA)	78			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1030176	LCS
1030176	Soil	2023-10-06	Perfluoroalkane Carboxylic Acids	Perfluorododecanoic acid (PFDoDA)	62			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1030176	LCS
1030176	Soil	2023-10-06	Perfluoroalkane Carboxylic Acids	Perfluorotetradecanoic acid (PFTeDA)	73			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1030176	LCS
1030176	Soil	2023-10-06	Perfluoroalkane Sulfonic Acids	Perfluoropropanesulfonic acid (PFPrS)	67			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1030176	LCS
1030176	Soil	2023-10-06	Perfluoroalkane Sulfonic Acids	Perfluorobutane sulfonic acid (PFBS)	86			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1030176	LCS
1030176	Soil	2023-10-06	Perfluoroalkane Sulfonic Acids	Perfluoropentane sulfonic acid (PFPeS)	103			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1030176	LCS
1030176	Soil	2023-10-06	Perfluoroalkane Sulfonic Acids	Perfluorohexane sulfonic acid (PFHxS)	92			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1030176	LCS
1030176	Soil	2023-10-06	Perfluoroalkane Sulfonic Acids	Perfluoroheptane sulfonic acid (PFHpS)	106			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1030176	LCS
1030176	Soil	2023-10-06	Perfluoroalkane Sulfonic Acids	Perfluorooctane sulfonic acid (PFOS)	106			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1030176	LCS
1030176	Soil	2023-10-06	Perfluoroalkane Sulfonic Acids	Perfluorononanesulfonic acid (PFNS)	76			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1030176	LCS
1030176	Soil	2023-10-06	(n:2) Fluorotelomer Sulfonic Acids	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	87			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1030176	LCS
1030176	Soil	2023-10-06	(n:2) Fluorotelomer Sulfonic Acids	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	97			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1030176	LCS
1030176	Soil	2023-10-06	(n:2) Fluorotelomer Sulfonic Acids	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	94			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1030176	LCS
1030176	Soil	2023-10-06	Perfluoroalkyl Sulfonamides	Perfluorooctane sulfonamide (FOSA)	89			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1030176	LCS

Lab Control Samples

Lab Report Number	Matrix Type	Analysis Batch	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1030176	Soil	2023-10-06	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamide (MeFOSA)	64			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1030176	LCS
1030176	Soil	2023-10-06	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	86			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1030176	LCS
1030176	Soil	2023-10-06	Perfluoroalkyl Sulfonamides	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	85			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1030176	LCS
1030176	Soil	2023-10-06	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	66			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_3_1030176	LCS
1036504	Soil	2023-10-23	TPH	C10-C14 Fraction	70			LTM-ORG-2010 TRH C6-C40	LCS_7_1036504	LCS
1036504	Soil	2023-10-23	TRH	>C10-C16 Fraction (F2)	72			LTM-ORG-2010 TRH C6-C40	LCS_7_1036504	LCS
1036504	Soil	2023-10-24	Perfluoroalkane Carboxylic Acids	Perfluorobutanoic acid (PFBA)	87			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036504	LCS
1036504	Soil	2023-10-24	Perfluoroalkane Carboxylic Acids	Perfluoropentanoic acid (PFPeA)	87			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036504	LCS
1036504	Soil	2023-10-24	Perfluoroalkane Carboxylic Acids	Perfluorohexanoic acid (PFHxA)	90			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036504	LCS
1036504	Soil	2023-10-24	Perfluoroalkane Carboxylic Acids	Perfluoroheptanoic acid (PFHpA)	76			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036504	LCS
1036504	Soil	2023-10-24	Perfluoroalkane Carboxylic Acids	Perfluorooctanoic acid (PFOA)	86			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036504	LCS
1036504	Soil	2023-10-24	Perfluoroalkane Carboxylic Acids	Perfluorononanoic acid (PFNA)	95			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036504	LCS
1036504	Soil	2023-10-24	Perfluoroalkane Carboxylic Acids	Perfluorodecanoic acid (PFDA)	92			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036504	LCS
1036504	Soil	2023-10-24	Perfluoroalkane Carboxylic Acids	Perfluoroundecanoic acid (PFUnDA)	101			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036504	LCS
1036504	Soil	2023-10-24	Perfluoroalkane Carboxylic Acids	Perfluorododecanoic acid (PFDoDA)	102			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036504	LCS
1036504	Soil	2023-10-24	Perfluoroalkane Carboxylic Acids	Perfluorotridecanoic acid (PFTrDA)	90			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036504	LCS
1036504	Soil	2023-10-24	Perfluoroalkane Carboxylic Acids	Perfluorotetradecanoic acid (PFTeDA)	93			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036504	LCS
1036504	Soil	2023-10-24	Perfluoroalkane Sulfonic Acids	Perfluoropropanesulfonic acid (PFPrS)	93			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036504	LCS
1036504	Soil	2023-10-24	Perfluoroalkane Sulfonic Acids	Perfluorobutane sulfonic acid (PFBS)	98			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036504	LCS
1036504	Soil	2023-10-24	Perfluoroalkane Sulfonic Acids	Perfluoropentane sulfonic acid (PFPeS)	87			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036504	LCS
1036504	Soil	2023-10-24	Perfluoroalkane Sulfonic Acids	Perfluorohexane sulfonic acid (PFHxS)	94			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036504	LCS
1036504	Soil	2023-10-24	Perfluoroalkane Sulfonic Acids	Perfluoroheptane sulfonic acid (PFHpS)	102			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036504	LCS
1036504	Soil	2023-10-24	Perfluoroalkane Sulfonic Acids	Perfluorooctane sulfonic acid (PFOS)	88			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036504	LCS
1036504	Soil	2023-10-24	Perfluoroalkane Sulfonic Acids	Perfluorononanesulfonic acid (PFNS)	90			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036504	LCS
1036504	Soil	2023-10-24	Perfluoroalkane Sulfonic Acids	Perfluorodecane sulfonic acid (PFDS)	80			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036504	LCS
1036504	Soil	2023-10-24	(n:2) Fluorotelomer Sulfonic Acids	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	91			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036504	LCS
1036504	Soil	2023-10-24	(n:2) Fluorotelomer Sulfonic Acids	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	96			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036504	LCS
1036504	Soil	2023-10-24	(n:2) Fluorotelomer Sulfonic Acids	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	104			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036504	LCS
1036504	Soil	2023-10-24	(n:2) Fluorotelomer Sulfonic Acids	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	95			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036504	LCS
1036504	Soil	2023-10-24	Perfluoroalkyl Sulfonamides	Perfluorooctane sulfonamide (FOSA)	106			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036504	LCS
1036504	Soil	2023-10-24	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamide (MeFOSA)	109			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036504	LCS
1036504	Soil	2023-10-24	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	100			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036504	LCS
1036504	Soil	2023-10-24	Perfluoroalkyl Sulfonamides	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	95			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036504	LCS
1036504	Soil	2023-10-24	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	99			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036504	LCS
1036504	Soil	2023-10-24	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	97			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036504	LCS
1036504	Soil	2023-10-24	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	82			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036504	LCS
1036504	Soil	2023-10-24	Organic	Total Organic Carbon	101			LTM-INO-4060 Total Organic Carbon in water and soil	LCS_5_1036504	LCS
1036504	Soil	2023-10-24	TPH	C6-C9 Fraction	109			LTM-ORG-2010 TRH C6-C40	LCS_6_1036504	LCS
1036504	Soil	2023-10-24	TRH	C6-C10 Fraction (F1)	109			LTM-ORG-2010 TRH C6-C40	LCS_6_1036504	LCS
1036504	Soil	2023-10-24	Inorganics	Conductivity (1:5 aqueous extract)	93			LTM-INO-4030 Conductivity	LCS_3_1036504	LCS
1036504	Soil	2023-10-24	Inorganics	Alkalinity (total) as CaCO3	115			LTM-INO-4250 Alkalinity by Electrometric Titration	LCS_4_1036504	LCS
1036504	Soil	2023-10-30	Perfluoroalkane Carboxylic Acids	Perfluorobutanoic acid (PFBA)	96			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_2_1036504	LCS
1036504	Soil	2023-10-30	Perfluoroalkane Carboxylic Acids	Perfluoropentanoic acid (PFPeA)	98			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_2_1036504	LCS
1036504	Soil	2023-10-30	Perfluoroalkane Carboxylic Acids	Perfluorohexanoic acid (PFHxA)	89			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_2_1036504	LCS
1036504	Soil	2023-10-30	Perfluoroalkane Carboxylic Acids	Perfluoroheptanoic acid (PFHpA)	99			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_2_1036504	LCS
1036504	Soil	2023-10-30	Perfluoroalkane Carboxylic Acids	Perfluorooctanoic acid (PFOA)	97			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_2_1036504	LCS
1036504	Soil	2023-10-30	Perfluoroalkane Carboxylic Acids	Perfluorononanoic acid (PFNA)	91			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_2_1036504	LCS
1036504	Soil	2023-10-30	Perfluoroalkane Carboxylic Acids	Perfluorodecanoic acid (PFDA)	88			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_2_1036504	LCS
1036504	Soil	2023-10-30	Perfluoroalkane Carboxylic Acids	Perfluoroundecanoic acid (PFUnDA)	62			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_2_1036504	LCS
1036504	Soil	2023-10-30	Perfluoroalkane Carboxylic Acids	Perfluorotetradecanoic acid (PFTeDA)	67			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_2_1036504	LCS
1036504	Soil	2023-10-30	Perfluoroalkane Sulfonic Acids	Perfluoropropanesulfonic acid (PFPrS)	79			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_2_1036504	LCS
1036504	Soil	2023-10-30	Perfluoroalkane Sulfonic Acids	Perfluorobutane sulfonic acid (PFBS)	91			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_2_1036504	LCS
1036504	Soil	2023-10-30	Perfluoroalkane Sulfonic Acids	Perfluoropentane sulfonic acid (PFPeS)	102			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_2_1036504	LCS
1036504	Soil	2023-10-30	Perfluoroalkane Sulfonic Acids	Perfluorohexane sulfonic acid (PFHxS)	99			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_2_1036504	LCS
1036504	Soil	2023-10-30	Perfluoroalkane Sulfonic Acids	Perfluoroheptane sulfonic acid (PFHpS)	85			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_2_1036504	LCS
1036504	Soil	2023-10-30	Perfluoroalkane Sulfonic Acids	Perfluorononanesulfonic acid (PFNS)	69			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_2_1036504	LCS
1036504	Soil	2023-10-30	(n:2) Fluorotelomer Sulfonic Acids	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	92			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_2_1036504	LCS
1036504	Soil	2023-10-30	(n:2) Fluorotelomer Sulfonic Acids	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	102			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_2_1036504	LCS
1036504	Soil	2023-10-30	(n:2) Fluorotelomer Sulfonic Acids	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	82			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_2_1036504	LCS
1036504	Soil	2023-10-30	Perfluoroalkyl Sulfonamides	Perfluorooctane sulfonamide (FOSA)	94			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_2_1036504	LCS
1036504	Soil	2023-10-30	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamide (MeFOSA)	60			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_2_1036504	LCS
1036504	Soil	2023-10-30	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	75			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_2_1036504	LCS
1036504	Soil	2023-10-30	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	68			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_2_1036504	LCS
1036893	Soil	2023-11-06	Perfluoroalkane Carboxylic Acids	Perfluorobutanoic acid (PFBA)	106			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036893	LCS
1036893	Soil	2023-11-06	Perfluoroalkane Carboxylic Acids	Perfluoropentanoic acid (PFPeA)	106			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036893	LCS
1036893	Soil	2023-11-06	Perfluoroalkane Carboxylic Acids	Perfluorohexanoic acid (PFHxA)	94			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036893	LCS
1036893	Soil	2023-11-06	Perfluoroalkane Carboxylic Acids	Perfluoroheptanoic acid (PFHpA)	101			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036893	LCS
1036893	Soil	2023-11-06	Perfluoroalkane Carboxylic Acids	Perfluorooctanoic acid (PFOA)	113			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036893	LCS
1036893	Soil	2023-11-06	Perfluoroalkane Carboxylic Acids	Perfluorononanoic acid (PFNA)	94			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036893	LCS
1036893	Soil	2023-11-06	Perfluoroalkane Carboxylic Acids	Perfluorodecanoic acid (PFDA)	75			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036893	LCS
1036893	Soil	2023-11-06	Perfluoroalkane Carboxylic Acids	Perfluoroundecanoic acid (PFUnDA)	98			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036893	LCS

Lab Control Samples

Lab Report Number	Matrix Type	Analysis Batch	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1036893	Soil	2023-11-06	Perfluoroalkane Carboxylic Acids	Perfluorododecanoic acid (PFDoDA)	81			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036893	LCS
1036893	Soil	2023-11-06	Perfluoroalkane Carboxylic Acids	Perfluorotridecanoic acid (PFTrDA)	77			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036893	LCS
1036893	Soil	2023-11-06	Perfluoroalkane Carboxylic Acids	Perfluorotetradecanoic acid (PFTeDA)	76			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036893	LCS
1036893	Soil	2023-11-06	Perfluoroalkane Sulfonic Acids	Perfluoropropanesulfonic acid (PFPrS)	109			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036893	LCS
1036893	Soil	2023-11-06	Perfluoroalkane Sulfonic Acids	Perfluorobutane sulfonic acid (PFBS)	118			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036893	LCS
1036893	Soil	2023-11-06	Perfluoroalkane Sulfonic Acids	Perfluoropentane sulfonic acid (PFPeS)	124			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036893	LCS
1036893	Soil	2023-11-06	Perfluoroalkane Sulfonic Acids	Perfluorohexane sulfonic acid (PFHxS)	106			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036893	LCS
1036893	Soil	2023-11-06	Perfluoroalkane Sulfonic Acids	Perfluoroheptane sulfonic acid (PFHpS)	104			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036893	LCS
1036893	Soil	2023-11-06	Perfluoroalkane Sulfonic Acids	Perfluorooctane sulfonic acid (PFOS)	106			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036893	LCS
1036893	Soil	2023-11-06	Perfluoroalkane Sulfonic Acids	Perfluorononanesulfonic acid (PFNS)	103			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036893	LCS
1036893	Soil	2023-11-06	Perfluoroalkane Sulfonic Acids	Perfluorodecane sulfonic acid (PFDS)	74			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036893	LCS
1036893	Soil	2023-11-06	(n:2) Fluorotelomer Sulfonic Acids	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	122			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036893	LCS
1036893	Soil	2023-11-06	(n:2) Fluorotelomer Sulfonic Acids	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	86			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036893	LCS
1036893	Soil	2023-11-06	(n:2) Fluorotelomer Sulfonic Acids	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	82			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036893	LCS
1036893	Soil	2023-11-06	(n:2) Fluorotelomer Sulfonic Acids	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	82			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036893	LCS
1036893	Soil	2023-11-06	Perfluoroalkyl Sulfonamides	Perfluorooctane sulfonamide (FOSA)	100			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036893	LCS
1036893	Soil	2023-11-06	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamide (MeFOSA)	81			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036893	LCS
1036893	Soil	2023-11-06	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	73			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036893	LCS
1036893	Soil	2023-11-06	Perfluoroalkyl Sulfonamides	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	73			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036893	LCS
1036893	Soil	2023-11-06	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	76			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036893	LCS
1036893	Soil	2023-11-06	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	72			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036893	LCS
1036893	Soil	2023-11-06	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	73			LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	LCS_1_1036893	LCS
EB2332809	Soil	2023-10-26	Perfluoroalkane Carboxylic Acids	Perfluorobutanoic acid (PFBA)	97	71	135	EP231B: Perfluoroalkyl Carboxylic Acids	QC-5376882-002	LCS
EB2332809	Soil	2023-10-26	Perfluoroalkane Carboxylic Acids	Perfluoropentanoic acid (PFPeA)	88	69	132	EP231B: Perfluoroalkyl Carboxylic Acids	QC-5376882-002	LCS
EB2332809	Soil	2023-10-26	Perfluoroalkane Carboxylic Acids	Perfluorohexanoic acid (PFHxA)	82.8	70	132	EP231B: Perfluoroalkyl Carboxylic Acids	QC-5376882-002	LCS
EB2332809	Soil	2023-10-26	Perfluoroalkane Carboxylic Acids	Perfluoroheptanoic acid (PFHpA)	88.4	71	131	EP231B: Perfluoroalkyl Carboxylic Acids	QC-5376882-002	LCS
EB2332809	Soil	2023-10-26	Perfluoroalkane Carboxylic Acids	Perfluorooctanoic acid (PFOA)	95.6	69	133	EP231B: Perfluoroalkyl Carboxylic Acids	QC-5376882-002	LCS
EB2332809	Soil	2023-10-26	Perfluoroalkane Carboxylic Acids	Perfluorononanoic acid (PFNA)	104	72	129	EP231B: Perfluoroalkyl Carboxylic Acids	QC-5376882-002	LCS
EB2332809	Soil	2023-10-26	Perfluoroalkane Carboxylic Acids	Perfluorodecanoic acid (PFDA)	97.6	69	133	EP231B: Perfluoroalkyl Carboxylic Acids	QC-5376882-002	LCS
EB2332809	Soil	2023-10-26	Perfluoroalkane Carboxylic Acids	Perfluoroundecanoic acid (PFUnDA)	87.6	64	136	EP231B: Perfluoroalkyl Carboxylic Acids	QC-5376882-002	LCS
EB2332809	Soil	2023-10-26	Perfluoroalkane Carboxylic Acids	Perfluorododecanoic acid (PFDoDA)	90.4	69	135	EP231B: Perfluoroalkyl Carboxylic Acids	QC-5376882-002	LCS
EB2332809	Soil	2023-10-26	Perfluoroalkane Carboxylic Acids	Perfluorotridecanoic acid (PFTrDA)	101	66	139	EP231B: Perfluoroalkyl Carboxylic Acids	QC-5376882-002	LCS
EB2332809	Soil	2023-10-26	Perfluoroalkane Carboxylic Acids	Perfluorotetradecanoic acid (PFTeDA)	86.8	69	133	EP231B: Perfluoroalkyl Carboxylic Acids	QC-5376882-002	LCS
EB2332809	Soil	2023-10-26	Perfluoroalkane Sulfonic Acids	Perfluorobutane sulfonic acid (PFBS)	92.7	72	128	EP231A: Perfluoroalkyl Sulfonic Acids	QC-5376882-002	LCS
EB2332809	Soil	2023-10-26	Perfluoroalkane Sulfonic Acids	Perfluoropentane sulfonic acid (PFPeS)	88	73	123	EP231A: Perfluoroalkyl Sulfonic Acids	QC-5376882-002	LCS
EB2332809	Soil	2023-10-26	Perfluoroalkane Sulfonic Acids	Perfluorohexane sulfonic acid (PFHxS)	88.1	67	130	EP231A: Perfluoroalkyl Sulfonic Acids	QC-5376882-002	LCS
EB2332809	Soil	2023-10-26	Perfluoroalkane Sulfonic Acids	Perfluoroheptane sulfonic acid (PFHpS)	92.8	70	132	EP231A: Perfluoroalkyl Sulfonic Acids	QC-5376882-002	LCS
EB2332809	Soil	2023-10-26	Perfluoroalkane Sulfonic Acids	Perfluorooctane sulfonic acid (PFOS)	89.2	68	136	EP231A: Perfluoroalkyl Sulfonic Acids	QC-5376882-002	LCS
EB2332809	Soil	2023-10-26	Perfluoroalkane Sulfonic Acids	Perfluorodecane sulfonic acid (PFDS)	90.8	59	134	EP231A: Perfluoroalkyl Sulfonic Acids	QC-5376882-002	LCS
EB2332809	Soil	2023-10-26	(n:2) Fluorotelomer Sulfonic Acids	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	85.9	62	145	EP231D: (n:2) Fluorotelomer Sulfonic Acids	QC-5376882-002	LCS
EB2332809	Soil	2023-10-26	(n:2) Fluorotelomer Sulfonic Acids	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	105	64	140	EP231D: (n:2) Fluorotelomer Sulfonic Acids	QC-5376882-002	LCS
EB2332809	Soil	2023-10-26	(n:2) Fluorotelomer Sulfonic Acids	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	93.8	65	137	EP231D: (n:2) Fluorotelomer Sulfonic Acids	QC-5376882-002	LCS
EB2332809	Soil	2023-10-26	(n:2) Fluorotelomer Sulfonic Acids	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	81.2	54.8	124	EP231D: (n:2) Fluorotelomer Sulfonic Acids	QC-5376882-002	LCS
EB2332809	Soil	2023-10-26	Perfluoroalkyl Sulfonamides	Perfluorooctane sulfonamide (FOSA)	95.2	67	137	EP231C: Perfluoroalkyl Sulfonamides	QC-5376882-002	LCS
EB2332809	Soil	2023-10-26	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamide (MeFOSA)	104	59.6	143	EP231C: Perfluoroalkyl Sulfonamides	QC-5376882-002	LCS
EB2332809	Soil	2023-10-26	Perfluoroalkyl Sulfonamides	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	85.6	63	144	EP231C: Perfluoroalkyl Sulfonamides	QC-5376882-002	LCS
EB2332809	Soil	2023-10-26	Perfluoroalkyl Sulfonamides	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	94.4	61.5	139	EP231C: Perfluoroalkyl Sulfonamides	QC-5376882-002	LCS
EB2332809	Soil	2023-10-26	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	86.5	62.8	140	EP231C: Perfluoroalkyl Sulfonamides	QC-5376882-002	LCS
EB2332809	Soil	2023-10-26	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	94.4	61	139	EP231C: Perfluoroalkyl Sulfonamides	QC-5376882-002	LCS
EB2332809	Soil	2023-10-26	Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	89.7	61.9	137	EP231C: Perfluoroalkyl Sulfonamides	QC-5376882-002	LCS
EB2332809	Water	2023-10-26	PFAS TOPA	Perfluorohexane sulfonic acid (TOPA)	86.5	43.4	126	EP231_TOP_A: Perfluoroalkyl Sulfonic Acids	QC-5382998-002	LCS
EB2332809	Water	2023-10-26	PFAS TOPA	Perfluorooctane sulfonic acid (PFOS) TOPA	87.6	33.4	118	EP231_TOP_A: Perfluoroalkyl Sulfonic Acids	QC-5382998-002	LCS
EB2332809	Water	2023-10-26	PFAS TOPA	Perfluorooctanoic acid (PFOA) TOPA	98.2	47.7	124	EP231_TOP_B: Perfluoroalkyl Carboxylic Acids	QC-5382998-002	LCS
EB2332950	Water	2023-10-26	PFAS TOPA	Perfluorohexane sulfonic acid (TOPA)	86.5	43.4	126	EP231_TOP_A: Perfluoroalkyl Sulfonic Acids	QC-5382998-002	LCS
EB2332950	Water	2023-10-26	PFAS TOPA	Perfluorooctane sulfonic acid (PFOS) TOPA	87.6	33.4	118	EP231_TOP_A: Perfluoroalkyl Sulfonic Acids	QC-5382998-002	LCS
EB2332950	Water	2023-10-26	PFAS TOPA	Perfluorooctanoic acid (PFOA) TOPA	98.2	47.7	124	EP231_TOP_B: Perfluoroalkyl Carboxylic Acids	QC-5382998-002	LCS

Lab Control Samples. Where no lab LCL and UCL is available, user defined limits between 60% and 140% have been adopted for non-compliance.

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1036504	Water	2023-10-30	B1-2	16/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Occ0044709	Normal
1030176	Soil	2023-10-06	BT-2-O-2	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067074	Normal
1030176	Soil	2023-10-06	BT-2-O-3	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067077	Normal
1030176	Soil	2023-10-06	BT-3-O-1	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067090	Normal
1030176	Soil	2023-10-06	BT-3-O-1	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067090	Normal
1030176	Soil	2023-10-06	BT-3-O-2	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067093	Normal
1030176	Soil	2023-10-06	BT-3-O-3	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067096	Normal
1030176	Soil	2023-10-06	BT-4-O-1	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067109	Normal
1030176	Soil	2023-10-06	BT-4-O-3	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067115	Normal
1030176	Soil	2023-10-11	BT-1-O-1	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067053	Normal
1030176	Soil	2023-10-11	BT-4-O-2	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067113	Normal
1030176	Water	2023-10-06	BT-1-O-2	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067057	Normal
1030176	Water	2023-10-06	BT-1-O-2	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067057	Normal
1030176	Water	2023-10-06	BT-1-O-2	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067057	Normal
1030176	Water	2023-10-06	BT-1-O-2	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067057	Normal
1030176	Water	2023-10-06	BT-1-3-1	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067064	Normal
1030176	Water	2023-10-06	BT-1-3-1	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067064	Normal
1030176	Water	2023-10-06	BT-1-3-1	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067064	Normal
1030176	Water	2023-10-06	BT-1-3-1	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067064	Normal
1030176	Water	2023-10-06	BT-1-3-1	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067065	Normal
1030176	Water	2023-10-06	BT-1-3-2	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067065	Normal
1030176	Water	2023-10-06	BT-1-3-2	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067065	Normal
1030176	Water	2023-10-06	BT-1-5-1	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067067	Normal
1030176	Water	2023-10-06	BT-1-5-1	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067067	Normal
1030176	Water	2023-10-06	BT-1-5-1	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067067	Normal
1030176	Water	2023-10-06	BT-2-O-1	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067073	Normal
1030176	Water	2023-10-06	BT-2-3-1	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067083	Normal
1030176	Water	2023-10-06	BT-2-5-1	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067086	Normal
1030176	Water	2023-10-06	BT-3-O-1	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067092	Normal
1030176	Water	2023-10-06	BT-3-O-1	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067092	Normal
1030176	Water	2023-10-06	BT-3-O-1	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067092	Normal
1030176	Water	2023-10-06	BT-3-O-1	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067092	Normal
1030176	Water	2023-10-06	BT-3-1-2	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067100	Normal
1030176	Water	2023-10-06	BT-3-1-2	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067100	Normal
1030176	Water	2023-10-06	BT-3-1-3	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067101	Normal
1030176	Water	2023-10-06	BT-3-1-3	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067101	Normal
1030176	Water	2023-10-06	BT-3-5-1	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067105	Normal
1030176	Water	2023-10-06	BT-4-O-1	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067111	Normal
1030176	Water	2023-10-06	BT-4-O-1	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067111	Normal
1030176	Water	2023-10-06	BT-4-O-1	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067111	Normal
1030176	Water	2023-10-06	BT-4-O-2	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067114	Normal
1030176	Water	2023-10-06	BT-4-O-2	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067114	Normal
1030176	Water	2023-10-06	BT-4-O-2	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067114	Normal
1030176	Water	2023-10-06	BT-4-1-3	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067120	Normal
1030176	Water	2023-10-06	BT-4-3-3	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067123	Normal
1030176	Water	2023-10-06	BT-4-3-3	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067123	Normal
1030176	Water	2023-10-06	BT-4-5-2	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067125	Normal
1030176	Water	2023-10-10	BT-2-1-2	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067081	Normal
1030176	Water	2023-10-10	BT-2-1-2	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067081	Normal
1036504	Water	2023-10-30	B1-3	16/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Occ0044712	Normal
1036504	Water	2023-10-30	B1-3	16/10/2023	PFAS surrogates	13C5-PFHxA (surr.)	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Occ0044712	Normal
1036504	Water	2023-10-30	B1-6	16/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Occ0044742	Normal
1036504	Water	2023-10-30	B2-3	16/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Occ0044724	Normal
1036504	Water	2023-10-30	B2-6	17/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Occ0044747	Normal
1036504	Water	2023-10-30	B3-1	16/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Occ0044730	Normal
1036504	Water	2023-10-30	B3-6	17/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Occ0044752	Normal
1036504	Water	2023-10-30	B3-6	17/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Occ0044752	Normal
1026894	Soil	2023-09-20	S008	15/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039316	Normal
1036893	Water	2023-11-02	B1-5-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Occ0047590	Normal
1036893	Water	2023-11-02	B2-3-POST	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Occ0047609	Normal
1036893	Water	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Occ0047641	Normal
1036893	Water	2023-11-02	B3-4-POST	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Occ0047657	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_1	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Occ0047610	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_1	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Occ0047610	Normal
1036893	Water	2023-11-10	B2-3-POST_DAY_5	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	-999	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Occ0047614	Normal
1036893	Soil	2023-11-02	B1-3-POST	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	5.6	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Occ0047573	Normal
1036893	Soil	2023-11-02	B3-5-POST	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	5.9	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Occ0047659	Normal
1030176	Water	2023-10-06	BT-1-O-2	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	10	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067057	Normal
1036893	Water	2023-11-10	B3-3-POST_DAY_6	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	10	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Occ0047650	Normal
1030176	Water	2023-10-06	BT-1-O-2	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	11	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067057	Normal
1030176	Water	2023-10-06	BT-3-O-1	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)	11	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067092	Normal
1030176	Water	2023-10-06	BT-3-1-3	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	11	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067101	Normal
1036504	Water	2023-10-30	B2-3	16/10/2023	PFAS surrogates	(13C3-PFBs) Surrogate	11	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Occ0044724	Normal
1036893	Soil	2023-11-06	B2-3-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	11	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Occ0047607	Normal
1036893	Soil	2023-11-06	B2-3-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	11	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Occ0047607	Normal
1036893	Water	2023-11-02	QC21	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	11	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Occ0047662	Field_D
1026894	Water	2023-09-20	W004	15/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	12	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039306	Normal

Surrogates

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1030176	Water	2023-10-06	BT-3-1-3	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	14	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067101	Normal
1036893	Soil	2023-11-06	B2-4-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	14	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047620	Normal
1036893	Soil	2023-11-06	B2-4-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	14	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047620	Normal
1036893	Soil	2023-11-06	B2-5-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	14	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047623	Normal
1030176	Water	2023-10-06	BT-2-0-1	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	15	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067073	Normal
1030176	Water	2023-10-06	BT-3-5-3	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	15	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067107	Normal
1036893	Soil	2023-11-06	B2-1-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	15	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047591	Normal
1036893	Soil	2023-11-06	B2-1-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	15	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047591	Normal
1036893	Soil	2023-11-06	B2-5-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	15	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047623	Normal
1036893	Water	2023-11-02	B3-4-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	15	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047657	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_1	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	15	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047610	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_2	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	15	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047611	Normal
1036893	Water	2023-11-10	B3-3-POST_DAY_6	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	15	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047650	Normal
1030176	Soil	2023-10-06	BT-4-0-1	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	16	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067109	Normal
1030176	Water	2023-10-06	BT-3-3-1	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate	16	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067102	Normal
1036893	Water	2023-11-10	B1-1-POST_DAY_6	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	16	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047564	Normal
1036893	Water	2023-11-10	B3-3-POST_DAY_6	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	16	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047650	Normal
1030176	Water	2023-10-06	BT-1-0-2	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)	17	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067057	Normal
1030176	Water	2023-10-06	BT-1-0-2	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	17	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067057	Normal
1030176	Water	2023-10-06	BT-1-3-1	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	17	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067064	Normal
1030176	Water	2023-10-06	BT-3-0-1	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	17	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067092	Normal
1030176	Water	2023-10-06	BT-3-5-3	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	17	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067107	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_1	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	17	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047594	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_2	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	17	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047611	Normal
1036893	Water	2023-11-10	B1-1-POST_DAY_6	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	17	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047564	Normal
1030176	Water	2023-10-06	BT-1-0-2	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)	18	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067057	Normal
1030176	Water	2023-10-06	BT-1-3-1	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	18	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067064	Normal
1030176	Water	2023-10-06	BT-1-3-2	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	18	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067065	Normal
1030176	Water	2023-10-06	BT-3-0-1	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	18	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067092	Normal
1036504	Soil	2023-10-26	B1-1	16/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	18	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044705	Normal
1036504	Water	2023-10-30	B1-3	16/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate	18	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044712	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_1	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	18	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047594	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_1	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	18	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047610	Normal
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	19	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094	Normal
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	19	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094	Normal
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	19	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094	Normal
1030176	Water	2023-10-06	BT-3-0-1	28/09/2023	PFAS surrogates	13C2-PFDODA (surr.)	19	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067092	Normal
1036893	Water	2023-11-02	B1-3-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	19	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047574	Normal
1036893	Water	2023-11-02	QC21	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	19	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047662	Field_D
1036893	Water	2023-11-10	B3-3-POST_DAY_6	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	19	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047650	Normal
1030176	Water	2023-10-06	BT-1-1-3	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	20	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067063	Normal
1036893	Soil	2023-11-02	B3-5-POST	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate	20	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047659	Normal
1026894	Water	2023-09-20	W002	15/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate	21	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039304	Normal
1030176	Soil	2023-10-06	BT-3-0-2	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	21	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067093	Normal
1030176	Water	2023-10-06	BT-1-1-3	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	21	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067063	Normal
1030176	Water	2023-10-06	BT-2-5-3	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate	21	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067088	Normal
1036893	Water	2023-11-10	B1-1-POST_DAY_6	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	21	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047564	Normal
1030176	Water	2023-10-06	BT-2-0-1	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	22	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067073	Normal
1030176	Water	2023-10-06	BT-3-0-1	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	22	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067092	Normal
1030176	Water	2023-10-06	BT-4-0-1	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	22	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067111	Normal
1030176	Water	2023-10-06	BT-4-3-1	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	22	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067121	Normal
1030176	Water	2023-10-10	BT-1-5-2	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	22	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068	Normal
1036504	Water	2023-10-30	B3-6	17/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	22	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044752	Normal
1036893	Water	2023-11-02	B1-3-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	22	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047574	Normal
1036893	Water	2023-11-02	B2-3-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	22	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047609	Normal
1036893	Water	2023-11-02	QC19	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	22	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047661	Field_D
1036504	Water	2023-10-30	B2-6	17/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	23	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044747	Normal
1030176	Water	2023-10-06	BT-1-3-1	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	23	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067064	Normal
1026894	Water	2023-09-20	W010	15/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	23	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039312	Normal
1036893	Water	2023-11-02	B1-3-POST	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	23	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047574	Normal
1036893	Water	2023-11-02	B1-3-POST	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	23	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047574	Normal
1036893	Water	2023-11-02	QC19	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	23	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047661	Field_D
1036893	Water	2023-11-02	QC19	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	23	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047661	Field_D
1036893	Water	2023-11-09	B3-1-POST_DAY_1	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	23	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047629	Normal
1036893	Water	2023-11-10	B2-3-POST_DAY_6	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	23	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047615	Normal
1036504	Water	2023-10-30	B1-3	16/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	24	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044712	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_1	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	24	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047629	Normal
1036893	Water	2023-11-10	B1-1-POST_DAY_6	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	24	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047564	Normal
1036893	Water	2023-11-10	B2-3-POST_DAY_6	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	24	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047615	Normal
1036504	Water	2023-10-30	B1-6	16/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	25	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044742	Normal
1030176	Soil	2023-10-06	BT-2-0-1	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate	25	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067071	Normal
1030176	Soil	2023-10-06	BT-3-0-2	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	25	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067093	Normal
1030176	Water	2023-10-06	BT-1-0-2	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)	25	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067057	Normal
1030176	Water	2023-10-06	BT-1-5-1	28/09/2023	PFAS surrogates	13C2-PFDODA (surr.)	25	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067067	Normal
1030176	Water	2023-10-06	BT-4-0-2	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	25	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067114	Normal
1036504	Soil	2023-10-26	B2-3	16/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	25	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044723	Normal
1026894	Water	2023-09-20	W002	15/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	25	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039304	Normal
1036893	Water	2023-11-10	B2-3-POST_DAY_6	19/10/2023	PFAS surrogates							

Surrogates													
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type	
1030176	Water	2023-10-06	BT-3-0-1	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	27	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067092	Normal	
1030176	Water	2023-10-06	BT-4-3-1	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	27	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067121	Normal	
1036893	Water	2023-11-02	B1-3-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	27	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047574	Normal	
1036893	Water	2023-11-10	B2-1-POST_DAY_5	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	27	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047598	Normal	
1036893	Water	2023-11-10	B2-1-POST_DAY_5	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	27	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047598	Normal	
1030176	Soil	2023-10-06	BT-3-0-2	28/09/2023	PFAS surrogates	13C8-PFOA	28	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067093	Normal	
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	28	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094	Normal	
1030176	Water	2023-10-06	BT-1-3-1	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)	28	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067064	Normal	
1030176	Water	2023-10-06	BT-2-1-3	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	28	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067082	Normal	
1030176	Water	2023-10-06	BT-2-5-3	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	28	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067088	Normal	
1036893	Water	2023-11-02	B1-5-POST	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	28	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047590	Normal	
1036893	Water	2023-11-09	B3-3-POST_DAY_1	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	28	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047645	Normal	
1036893	Water	2023-11-14	B2-1-POST_DAY_7	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	28	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047600	Normal	
1036893	Water	2023-11-14	B2-3-POST_DAY_7	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	28	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047616	Normal	
1030176	Soil	2023-10-06	BT-2-0-3	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate	29	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067077	Normal	
1030176	Water	2023-10-06	BT-2-1-1	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	29	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067080	Normal	
1030176	Water	2023-10-06	BT-2-1-1	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	29	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067080	Normal	
1030176	Water	2023-10-06	BT-2-1-3	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	29	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067082	Normal	
1030176	Water	2023-10-06	BT-2-1-3	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	29	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067082	Normal	
1030176	Water	2023-10-06	BT-3-0-1	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)	29	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067092	Normal	
1030176	Water	2023-10-06	BT-4-1-2	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	29	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067119	Normal	
1030176	Water	2023-10-10	BT-1-5-3	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	29	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067069	Normal	
1036893	Water	2023-11-13	B3-1-POST_DAY_9	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	29	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047637	Normal	
1030176	Soil	2023-10-06	BT-2-0-1	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	30	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067071	Normal	
1030176	Soil	2023-10-06	BT-3-0-2	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	30	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067093	Normal	
1030176	Soil	2023-10-06	BT-3-0-3	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	30	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067096	Normal	
1030176	Soil	2023-10-11	BT-3-0-3	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	30	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067097	Normal	
1030176	Water	2023-10-06	BT-1-1-3	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)	30	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067063	Normal	
1030176	Water	2023-10-06	BT-4-0-2	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	30	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067114	Normal	
1036504	Water	2023-10-30	B1-3	16/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	30	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044712	Normal	
1036893	Water	2023-11-02	B1-3-POST	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	30	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047574	Normal	
1036893	Water	2023-11-10	B2-3-POST_DAY_6	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	30	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047615	Normal	
1036893	Water	2023-11-14	B2-1-POST_DAY_7	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	30	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047600	Normal	
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)	31	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094	Normal	
1030176	Water	2023-10-06	BT-4-1-3	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	31	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067120	Normal	
1036504	Water	2023-10-30	B2-6	17/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate	31	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044747	Normal	
1036893	Soil	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate	31	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047605	Normal	
1036893	Water	2023-11-02	B1-1-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	31	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047558	Normal	
1036893	Water	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	31	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047641	Normal	
1036893	Water	2023-11-09	B2-1-POST_DAY_1	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	31	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047594	Normal	
1036893	Water	2023-11-09	B3-3-POST_DAY_2	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	31	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047646	Normal	
1036893	Water	2023-11-09	B3-3-POST_DAY_2	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	31	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047646	Normal	
1036893	Water	2023-11-14	B2-1-POST_DAY_7	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	31	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047600	Normal	
1036504	Water	2023-10-30	B1-6	16/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate	32	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044742	Normal	
1030176	Soil	2023-10-06	BT-2-0-2	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	32	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067074	Normal	
1030176	Soil	2023-10-06	BT-3-0-2	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	32	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067093	Normal	
1030176	Water	2023-10-06	BT-1-3-1	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate	32	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067064	Normal	
1030176	Water	2023-10-06	BT-2-5-1	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	32	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067086	Normal	
1030176	Water	2023-10-06	BT-3-1-2	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	32	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067100	Normal	
1030176	Water	2023-10-06	BT-3-1-3	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)	32	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067101	Normal	
1036504	Soil	2023-10-30	B2-2	16/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	32	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044719	Normal	
1036504	Water	2023-10-30	B3-2	16/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	32	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044733	Normal	
1026894	Water	2023-09-20	W010	15/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	32	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039312	Normal	
1036893	Water	2023-11-02	B1-1-POST	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	32	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047558	Normal	
1036893	Water	2023-11-02	B1-2-POST	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	32	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047571	Normal	
1036893	Water	2023-11-09	B3-3-POST_DAY_1	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	32	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047645	Normal	
1036893	Water	2023-11-14	B2-3-POST_DAY_7	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	32	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047616	Normal	
1030176	Soil	2023-10-06	BT-3-0-1	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)	33	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067090	Normal	
1030176	Soil	2023-10-11	BT-3-0-3	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	33	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067097	Normal	
1030176	Water	2023-10-06	BT-2-1-1	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	33	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067080	Normal	
1030176	Water	2023-10-06	BT-4-0-1	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	33	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067111	Normal	
1036504	Water	2023-10-30	B1-6	16/10/2023	PFAS surrogates	13C5-PFHxA (surr.)	33	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044742	Normal	
1036504	Water	2023-10-30	B3-3	16/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	33	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044736	Normal	
1036504	Soil	2023-10-30	QC05	17/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	33	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044754	Field_D	
1036893	Water	2023-11-02	B1-3-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	33	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047574	Normal	
1036893	Water	2023-1											

Surrogates

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1036504	Soil	2023-10-30	B2-6	17/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	35	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044745	Normal
1036504	Water	2023-10-30	B2-6	17/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	35	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044747	Normal
1036504	Water	2023-10-30	B3-1	16/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate	35	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044730	Normal
1026894	Soil	2023-09-20	S008	15/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	35	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039316	Normal
1036893	Water	2023-11-02	B1-1-POST	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	35	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047558	Normal
1036893	Water	2023-11-02	B1-5-POST	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	35	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047590	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_3	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	35	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047612	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_1	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	35	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047645	Normal
1036893	Water	2023-11-10	B3-1-POST_DAY_5	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	35	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047633	Normal
1036893	Water	2023-11-13	B3-1-POST_DAY_9	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	35	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047637	Normal
1036893	Water	2023-11-14	B1-1-POST_DAY_7	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	35	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047565	Normal
1036893	Water	2023-11-14	B1-3-POST_DAY_7	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	35	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047581	Normal
1036893	Water	2023-11-14	B2-3-POST_DAY_7	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	35	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047616	Normal
1036504	Soil	2023-10-30	B2-1	16/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	36	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044716	Normal
1036504	Water	2023-10-30	B3-4	16/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	36	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044739	Normal
1030176	Soil	2023-10-06	BT-3-0-1	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)	36	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067090	Normal
1030176	Soil	2023-10-06	BT-3-0-2	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)	36	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067093	Normal
1030176	Soil	2023-10-11	BT-3-0-3	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)	36	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067097	Normal
1030176	Water	2023-10-06	BT-1-3-1	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	36	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067064	Normal
1030176	Water	2023-10-06	BT-2-1-1	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	36	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067080	Normal
1030176	Water	2023-10-06	BT-3-1-2	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	36	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067100	Normal
1030176	Water	2023-10-06	BT-3-1-3	28/09/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate	36	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067101	Normal
1030176	Water	2023-10-06	BT-3-3-3	28/09/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate	36	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067104	Normal
1030176	Water	2023-10-10	BT-1-3-3	28/09/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate	36	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067066	Normal
1036504	Water	2023-10-30	B3-6	17/10/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate	36	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044752	Normal
1026894	Water	2023-09-20	W010	15/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	36	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039312	Normal
1026894	Water	2023-09-20	W010	15/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	36	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039312	Normal
1036893	Water	2023-11-02	B1-2-POST	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	36	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047571	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_1	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)	36	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047610	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_1	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	36	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047629	Normal
1036893	Water	2023-11-14	B1-1-POST_DAY_7	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	36	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047565	Normal
1036893	Water	2023-11-14	B2-1-POST_DAY_7	19/10/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate	36	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047600	Normal
1036504	Water	2023-10-30	B2-4	16/10/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate	37	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044727	Normal
1030176	Soil	2023-10-06	BT-3-0-3	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	37	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067096	Normal
1030176	Soil	2023-10-11	BT-3-0-3	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	37	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067097	Normal
1030176	Water	2023-10-06	BT-1-5-1	28/09/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate	37	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067067	Normal
1030176	Water	2023-10-06	BT-1-5-1	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	37	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067067	Normal
1030176	Water	2023-10-06	BT-3-1-2	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	37	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067100	Normal
1030176	Water	2023-10-06	BT-3-5-3	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	37	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067107	Normal
1026894	Water	2023-09-20	W010	15/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	37	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039312	Normal
1036893	Water	2023-11-02	B1-3-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)	37	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047574	Normal
1036893	Water	2023-11-02	B1-4-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	37	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047587	Normal
1036893	Water	2023-11-02	B1-4-POST	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	37	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047587	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_3	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	37	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047596	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_3	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	37	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047596	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_2	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	37	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047630	Normal
1036893	Water	2023-11-14	B1-1-POST_DAY_7	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	37	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047565	Normal
1036893	Water	2023-11-14	B2-1-POST_DAY_10	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	37	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047603	Normal
1036893	Water	2023-11-14	B2-1-POST_DAY_7	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	37	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047600	Normal
1036893	Water	2023-11-14	B2-3-POST_DAY_7	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	37	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047616	Normal
1036893	Water	2023-11-14	B3-3-POST_DAY_10	19/10/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate	37	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047654	Normal
1036504	Water	2023-10-30	B1-4	16/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	38	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044715	Normal
1030176	Soil	2023-10-06	BT-4-0-1	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	38	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067109	Normal
1030176	Water	2023-10-06	BT-1-3-2	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate	38	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067065	Normal
1030176	Water	2023-10-06	BT-1-3-2	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	38	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067065	Normal
1030176	Water	2023-10-06	BT-1-5-1	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)	38	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067067	Normal
1030176	Water	2023-10-06	BT-2-1-1	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)	38	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067080	Normal
1030176	Water	2023-10-06	BT-2-1-3	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)	38	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067082	Normal
1030176	Water	2023-10-06	BT-3-0-3	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate	38	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067098	Normal
1030176	Water	2023-10-06	BT-3-1-2	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	38	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067100	Normal
1030176	Water	2023-10-06	BT-4-1-3	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	38	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067120	Normal
1036504	Water	2023-10-30	B1-4	16/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	38	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044715	Normal
1036504	Water	2023-10-30	B2-4	16/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	38	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044727	Normal
1036504	Soil	2023-10-30	QC03	17/10/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate	38	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044749	Field_D
1036504	Soil	2023-10-30	QC03	17/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	38	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044748	Field_D
1036504	Soil	2023-10-30	QC05	17/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	38	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044754	Field_D
1036504	Soil	2023-10-30	QC05	17/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	38	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044754	Field_D
1026894	Water	2023-09-20	W010	15/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	38	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039312	Normal
1026894	Water	2023-09-20	W010	15/09/2023	PFAS surrogates	13C8-FOSA (surr.)	38	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039312	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_1	19/10/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate	38	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047594	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_1	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	38	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047594	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_2	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	38	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047611	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_1	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	38	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047629	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_1	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	38	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047645	Normal
1036893	Water	2023-11-10	B3-1-POST_DAY_5	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	38	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047633	Normal
1036893	Water	2023-11-14	B1-1-POST_DAY_7	19/10/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate	38	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047565	Normal
1036504	Soil	2023-10-30	QC05	17/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	39	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044754	

Surrogates

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1036893	Water	2023-11-02	QC19	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)	39	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047661	Field_D
1036893	Water	2023-11-09	B2-3-POST_DAY_3	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	39	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047612	Normal
1036893	Water	2023-11-13	B2-3-POST_DAY_8	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	39	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047617	Normal
1036893	Water	2023-11-13	B3-1-POST_DAY_9	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	39	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047637	Normal
1036893	Water	2023-11-14	B2-3-POST_DAY_7	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	39	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047616	Normal
1030176	Soil	2023-10-06	BT-3-0-3	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)	40	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067096	Normal
1030176	Soil	2023-10-06	BT-4-0-1	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	40	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067109	Normal
1030176	Soil	2023-10-11	BT-3-0-1	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	40	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067091	Normal
1030176	Soil	2023-10-11	BT-3-0-1	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	40	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067091	Normal
1030176	Water	2023-10-06	BT-1-0-1	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	40	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054	Normal
1030176	Water	2023-10-06	BT-3-1-3	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	40	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067101	Normal
1030176	Water	2023-10-06	BT-3-5-3	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	40	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067107	Normal
1036504	Water	2023-10-30	B1-4	16/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	40	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044715	Normal
1036504	Water	2023-10-30	B1-4	16/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	40	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044715	Normal
1036504	Soil	2023-10-30	B2-6	17/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	40	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044745	Normal
1036504	Water	2023-10-30	B3-6	17/10/2023	PFAS surrogates	13C5-PFHxA (surr.)	40	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044752	Normal
1036504	Soil	2023-10-30	QC05	17/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	40	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044754	Field_D
1036504	Soil	2023-10-30	QC05	17/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	40	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044754	Field_D
1036504	Soil	2023-10-30	QC05	17/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	40	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044754	Field_D
1036504	Soil	2023-10-30	QC05	17/10/2023	PFAS surrogates	13C6-PFDA (surr.)	40	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044754	Field_D
1036893	Water	2023-11-02	B1-1-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	40	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047558	Normal
1036893	Water	2023-11-14	B1-3-POST_DAY_7	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	40	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047581	Normal
1036893	Water	2023-11-14	B1-3-POST_DAY_7	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	40	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047581	Normal
1036893	Water	2023-11-14	B2-1-POST_DAY_10	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	40	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047603	Normal
1036893	Water	2023-11-14	B3-3-POST_DAY_10	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	40	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047654	Normal
1030176	Soil	2023-10-06	BT-1-0-3	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067058	Normal
1030176	Soil	2023-10-06	BT-1-0-3	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067058	Normal
1030176	Soil	2023-10-06	BT-3-0-1	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067090	Normal
1030176	Soil	2023-10-06	BT-4-0-3	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067115	Normal
1030176	Soil	2023-10-11	BT-3-0-3	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067097	Normal
1030176	Water	2023-10-06	BT-1-0-2	28/09/2023	PFOS	13C8 PFOS	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067057	Normal
1030176	Water	2023-10-06	BT-1-1-3	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067063	Normal
1030176	Water	2023-10-06	BT-2-1-1	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067080	Normal
1030176	Water	2023-10-06	BT-3-0-1	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067092	Normal
1030176	Water	2023-10-06	BT-3-3-3	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067104	Normal
1030176	Water	2023-10-06	BT-3-5-3	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067107	Normal
1030176	Water	2023-10-06	BT-4-3-3	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067123	Normal
1030176	Water	2023-10-06	BT-4-5-2	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067125	Normal
1036504	Water	2023-10-30	B1-1	16/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044706	Normal
1036504	Water	2023-10-30	B1-2	16/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044709	Normal
1036504	Water	2023-10-30	B1-4	16/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044715	Normal
1036504	Water	2023-10-30	B1-4	16/10/2023	PFAS surrogates	13C6-PFDA (surr.)	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044715	Normal
1036504	Soil	2023-10-26	B1-6	16/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044741	Normal
1036504	Water	2023-10-30	B2-3	16/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044724	Normal
1036504	Water	2023-10-30	B2-4	16/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044727	Normal
1036504	Soil	2023-10-30	B2-4	16/10/2023	PFAS surrogates	13C5-PFHxA (surr.)	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044725	Normal
1036504	Water	2023-10-30	B2-4	16/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044727	Normal
1036504	Water	2023-10-30	B3-2	16/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044733	Normal
1036504	Soil	2023-10-30	QC03	17/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044749	Field_D
1036893	Soil	2023-11-06	B2-5-POST	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047623	Normal
1036893	Water	2023-11-02	B1-2-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047571	Normal
1036893	Water	2023-11-02	B1-2-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047571	Normal
1036893	Water	2023-11-02	QC19	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047661	Field_D
1036893	Water	2023-11-02	QC19	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047661	Field_D
1036893	Water	2023-11-02	QC19	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047661	Field_D
1036893	Water	2023-11-09	B1-3-POST_DAY_4	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047578	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_1	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047610	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_2	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047646	Normal
1036893	Water	2023-11-10	B3-3-POST_DAY_6	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047650	Normal
1036893	Water	2023-11-14	B2-1-POST_DAY_7	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047600	Normal
1036893	Water	2023-11-14	B2-1-POST_DAY_7	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047600	Normal
1036893	Water	2023-11-14	B2-3-POST_DAY_7	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047616	Normal
1036893	Water	2023-11-14	B3-3-POST_DAY_10	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047654	Normal
1036893	Water	2023-11-14	B3-3-POST_DAY_10	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047654	Normal
1036893	Water	2023-11-14	B3-3-POST_DAY_10	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	41	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047654	Normal
1030176	Soil	2023-10-06	BT-3-0-1	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	42	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067090	Normal
1030176	Soil	2023-10-06	BT-3-0-1	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	42	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067090	Normal
1030176	Soil	2023-10-06	BT-3-0-2	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)	42	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067093	Normal
1030176	Soil	2023-10-06	BT-3-0-2	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	42	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067093	Normal
1030176	Soil	2023-10-06	BT-3-0-3	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate	42	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067096	Normal
1030176	Soil	2023-10-06	BT-4-0-1	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	42	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067109	Normal
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)	42	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094	Normal
1030176	Water	2023-10-06	BT-3-0-2	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	42	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067095	Normal
1030176	Water	2023-10-06	BT-3-3-3	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	42	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067104	Normal
1036504	Soil	2023-10-30	B2-2	16/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	42	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044719	Normal
1036504	Soil	2023-10-30	B2-4	16/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	42	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044725	Normal
1036504	Water	2023-10-30	B2-4	16/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	42	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044727	Normal
1036504	Water	2023-10-30	B3-2	16/10/202								

Surrogates

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1030176	Water	2023-10-06	BT-3-5-1	28/09/2023	PFAS surrogates	D5-N-EtFOA (surr.)	46	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067105	Normal
1030176	Water	2023-10-06	BT-4-1-2	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	46	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067119	Normal
1030176	Water	2023-10-06	BT-4-1-2	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)	46	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067119	Normal
1036504	Water	2023-10-30	B1-4	16/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	46	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044715	Normal
1036504	Water	2023-10-30	B2-1	16/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	46	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044718	Normal
1036504	Water	2023-10-30	B2-1	16/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	46	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044718	Normal
1036504	Soil	2023-10-26	B3-1	16/10/2023	PFAS surrogates	D5-N-EtFOA (surr.)	46	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044729	Normal
1036504	Water	2023-10-30	B3-2	16/10/2023	PFAS surrogates	13C6-PFDA (surr.)	46	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044733	Normal
1036504	Water	2023-10-30	B3-2	16/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	46	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044733	Normal
1036504	Water	2023-10-30	B3-4	16/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	46	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044739	Normal
1036504	Water	2023-10-30	B3-4	16/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	46	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044739	Normal
1036893	Soil	2023-11-06	B2-2-POST	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	46	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047604	Normal
1036893	Water	2023-11-02	B1-2-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)	46	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047571	Normal
1036893	Water	2023-11-02	B1-3-POST	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	46	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047574	Normal
1036893	Water	2023-11-02	B1-5-POST	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	46	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047590	Normal
1036893	Water	2023-11-02	QC19	19/10/2023		13C8 PFOS	46	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047661	Field_D
1036893	Water	2023-11-09	B3-1-POST_DAY_2	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	46	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047630	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_3	19/10/2023	PFAS surrogates	D3-N-MeFOA (surr.)	46	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047631	Normal
1036893	Water	2023-11-13	B2-1-POST_DAY_9	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	46	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047602	Normal
1036893	Water	2023-11-14	B1-1-POST_DAY_10	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	46	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047568	Normal
1036893	Water	2023-11-14	B1-3-POST_DAY_7	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	46	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047581	Normal
1030176	Soil	2023-10-06	BT-2-0-1	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)	47	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067071	Normal
1030176	Water	2023-10-06	BT-2-0-2	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	47	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067076	Normal
1030176	Water	2023-10-06	BT-3-1-3	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	47	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067101	Normal
1030176	Water	2023-10-06	BT-4-5-3	28/09/2023	PFAS surrogates	D5-N-EtFOA (surr.)	47	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067126	Normal
1036504	Water	2023-10-30	B1-1	16/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	47	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044706	Normal
1036504	Water	2023-10-30	B1-4	16/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	47	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044715	Normal
1036504	Water	2023-10-30	B1-6	16/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	47	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044742	Normal
1036504	Water	2023-10-30	B2-2	16/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	47	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044721	Normal
1036504	Water	2023-10-30	B2-3	16/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	47	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044724	Normal
1036504	Water	2023-10-30	B2-4	16/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	47	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044727	Normal
1036504	Water	2023-10-30	B2-4	16/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	47	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044727	Normal
1036504	Water	2023-10-30	B2-4	16/10/2023	PFAS surrogates	13C6-PFDA (surr.)	47	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044727	Normal
1036504	Soil	2023-10-30	B2-6	17/10/2023	PFAS surrogates	13C5-PFHxA (surr.)	47	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044745	Normal
1036504	Water	2023-10-30	B3-2	16/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	47	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044733	Normal
1036504	Water	2023-10-30	B3-6	17/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	47	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044752	Normal
1036893	Water	2023-11-02	B1-1-POST	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	47	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047558	Normal
1036893	Water	2023-11-02	B1-3-POST	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	47	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047574	Normal
1036893	Water	2023-11-09	B1-3-POST_DAY_2	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	47	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047576	Normal
1036893	Water	2023-11-09	B1-3-POST_DAY_4	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	47	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047578	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_3	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	47	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047596	Normal
1036893	Water	2023-11-10	B2-1-POST_DAY_6	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	47	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047599	Normal
1036893	Water	2023-11-10	B3-1-POST_DAY_5	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	47	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047633	Normal
1036893	Water	2023-11-13	B3-1-POST_DAY_9	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	47	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047637	Normal
1036504	Water	2023-10-30	B2-1	16/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	48	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044718	Normal
1036504	Water	2023-10-30	B2-1	16/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	48	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044718	Normal
1036504	Water	2023-10-30	B2-4	16/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	48	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044727	Normal
1030176	Soil	2023-10-06	BT-1-0-3	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)	48	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067058	Normal
1030176	Soil	2023-10-06	BT-2-0-1	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)	48	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067071	Normal
1030176	Soil	2023-10-06	BT-2-0-2	28/09/2023	PFAS surrogates	13C8-PFOA	48	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067074	Normal
1030176	Soil	2023-10-06	BT-3-0-1	28/09/2023	PFAS surrogates	D5-N-EtFOA (surr.)	48	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067090	Normal
1030176	Soil	2023-10-06	BT-4-0-1	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)	48	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067109	Normal
1030176	Soil	2023-10-06	BT-4-0-1	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	48	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067109	Normal
1030176	Water	2023-10-06	BT-1-3-1	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)	48	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067064	Normal
1030176	Water	2023-10-06	BT-1-5-1	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	48	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067067	Normal
1030176	Water	2023-10-06	BT-3-0-1	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)	48	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067092	Normal
1030176	Water	2023-10-06	BT-3-0-1	28/09/2023	PFAS surrogates	13C8-PFOA	48	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067092	Normal
1030176	Water	2023-10-06	BT-3-1-3	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)	48	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067101	Normal
1030176	Water	2023-10-06	BT-4-1-2	28/09/2023	PFAS surrogates	D3-N-MeFOA (surr.)	48	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067119	Normal
1030176	Water	2023-10-10	BT-1-5-3	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)	48	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067069	Normal
1030176	Water	2023-10-10	BT-2-1-2	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	48	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067081	Normal
1036504	Water	2023-10-30	B2-4	16/10/2023	PFAS surrogates	13C8-FOSA (surr.)	48	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044727	Normal
1036504	Soil	2023-10-26	B3-2	16/10/2023	PFAS surrogates	D3-N-MeFOA (surr.)	48	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044732	Normal
1036504	Water	2023-10-30	B3-4	16/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	48	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044739	Normal
1036504	Soil	2023-10-30	QC01	17/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	48	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044744	Field_D
1036504	Soil	2023-10-30	QC03	17/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	48	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044749	Field_D
1036504	Soil	2023-10-30	QC03	17/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	48	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044749	Field_D
1026894	Soil	2023-09-20	S001	15/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	48	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039313	Normal
1026894	Water	2023-09-20	W007	15/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	48	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039309	Normal
1026894	Water	2023-09-20	W010	15/09/2023	PFAS surrogates	13C6-PFDA (surr.)	48	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039312	Normal
1036893	Water	2023-11-02	B1-1-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)	48	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047558	Normal
1036893	Water	2023-11-02	QC19	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	48	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047661	Field_D
1036893	Water	2023-11-02	QC19	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)	48	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047661	Field_D
1036893	Water	2023-11-09	B1-3-POST_DAY_2	19/10/2023	PFAS surrogates	D3-N-MeFOA (surr.)	48	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047576	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_3	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	48	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047631	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_2	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	48	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047646	Normal
1036893	Water	2023-11-13	B3-1-POST_DAY_9	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	48	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047637	Normal
1036893	Water	2023-11-14	B1-3-POST_DAY_7	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	48	20				

Surrogates

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1030176	Water	2023-10-06	BT-4-0-3	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	49	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067117	Normal
1030176	Water	2023-10-06	BT-4-1-1	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	49	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067118	Normal
1030176	Water	2023-10-06	BT-4-1-3	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	49	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067120	Normal
1030176	Water	2023-10-06	BT-4-3-3	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate	49	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067123	Normal
1030176	Water	2023-10-06	BT-4-5-2	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	49	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067125	Normal
1030176	Water	2023-10-10	BT-1-5-3	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)	49	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067069	Normal
1036504	Soil	2023-10-26	B2-2	16/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	49	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044720	Normal
1036504	Soil	2023-10-30	B2-6	17/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	49	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044745	Normal
1036504	Water	2023-10-30	B3-2	16/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	49	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044733	Normal
1036504	Soil	2023-10-26	B3-2	16/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	49	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044732	Normal
1036504	Soil	2023-10-30	QC03	17/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	49	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044749	Field_D
1026894	Soil	2023-09-20	S001	15/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	49	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039313	Normal
1026894	Soil	2023-09-20	S001	15/09/2023	PFAS surrogates	13C8-PFOA	49	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039313	Normal
1036893	Soil	2023-11-06	B2-4-POST	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	49	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047620	Normal
1036893	Water	2023-11-02	B1-1-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	49	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047558	Normal
1036893	Water	2023-11-02	B1-2-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	49	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047571	Normal
1036893	Water	2023-11-02	B1-2-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	49	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047571	Normal
1036893	Water	2023-11-02	B1-3-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	49	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047574	Normal
1036893	Water	2023-11-02	QC19	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	49	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047661	Field_D
1036893	Water	2023-11-09	B2-1-POST_DAY_1	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	49	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047594	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_3	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	49	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047596	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_4	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	49	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047613	Normal
1036893	Water	2023-11-10	B2-3-POST_DAY_5	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	49	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047614	Normal
1036893	Water	2023-11-10	B3-3-POST_DAY_5	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	49	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047649	Normal
1036893	Water	2023-11-14	B1-1-POST_DAY_10	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	49	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047568	Normal
1036893	Water	2023-11-14	B2-3-POST_DAY_10	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	49	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047619	Normal
1036893	Water	2023-11-14	B2-3-POST_DAY_7	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	49	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047616	Normal
1036504	Water	2023-10-30	B1-4	16/10/2023	PFAS surrogates	13C8-FOSA (surr.)	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044715	Normal
1036504	Soil	2023-10-26	B1-6	16/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044741	Normal
1036504	Soil	2023-10-30	B2-1	16/10/2023	PFAS surrogates	13C5-PFHxA (surr.)	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044716	Normal
1036504	Soil	2023-10-26	B2-2	16/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044720	Normal
1036504	Water	2023-10-30	B2-2	16/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044721	Normal
1030176	Soil	2023-10-06	BT-1-0-3	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067058	Normal
1030176	Soil	2023-10-06	BT-2-0-2	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067074	Normal
1030176	Soil	2023-10-06	BT-2-0-2	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067074	Normal
1030176	Soil	2023-10-06	BT-2-0-2	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067074	Normal
1030176	Soil	2023-10-06	BT-4-0-1	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067109	Normal
1030176	Soil	2023-10-06	BT-4-0-1	28/09/2023	PFAS surrogates	13C8-PFOA	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067109	Normal
1030176	Water	2023-10-06	BT-1-1-3	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067063	Normal
1030176	Water	2023-10-06	BT-1-3-1	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067064	Normal
1030176	Water	2023-10-06	BT-1-5-1	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067067	Normal
1030176	Water	2023-10-06	BT-2-1-3	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067082	Normal
1030176	Water	2023-10-06	BT-2-3-1	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067083	Normal
1030176	Water	2023-10-06	BT-3-1-2	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067100	Normal
1030176	Water	2023-10-06	BT-4-3-1	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067121	Normal
1030176	Water	2023-10-10	BT-1-1-2	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067062	Normal
1030176	Water	2023-10-10	BT-1-5-3	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067069	Normal
1036504	Soil	2023-10-26	B3-1	16/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044729	Normal
1036504	Soil	2023-10-26	B3-2	16/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044732	Normal
1036504	Soil	2023-10-26	B3-2	16/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044732	Normal
1036504	Water	2023-10-30	B3-6	17/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044752	Normal
1036504	Soil	2023-10-30	QC03	17/10/2023	PFAS surrogates	13C5-PFHxA (surr.)	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044748	Field_D
1036504	Soil	2023-10-30	QC03	17/10/2023	PFAS surrogates	13C6-PFDA (surr.)	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044749	Field_D
1036504	Soil	2023-10-30	QC03	17/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044749	Field_D
1026894	Soil	2023-09-20	S001	15/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039313	Normal
1028097	Soil	2023-09-27	W002	15/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049212	Normal
1028097	Soil	2023-09-27	W003	15/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049213	Normal
1026894	Water	2023-09-20	W006	15/09/2023	PFAS surrogates	13C8-PFOA	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039308	Normal
1026894	Water	2023-09-20	W009	15/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039311	Normal
1036893	Soil	2023-11-06	B2-3-POST	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047607	Normal
1036893	Water	2023-11-02	B3-5-POST	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047660	Normal
1036893	Water	2023-11-09	B1-3-POST_DAY_1	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047575	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_1	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047645	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_3	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047647	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_4	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047648	Normal
1036893	Water	2023-11-10	B2-1-POST_DAY_6	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047599	Normal
1036893	Water	2023-11-10	B2-1-POST_DAY_6	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047599	Normal
1036893	Water	2023-11-13	B2-3-POST_DAY_9	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047618	Normal
1036893	Water	2023-11-13	B2-3-POST_DAY_9	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047618	Normal
1036893	Water	2023-11-13	B2-3-POST_DAY_9	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047618	Normal
1036893	Water	2023-11-13	B3-3-POST_DAY_9	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047653	Normal
1036893	Water	2023-11-14	B1-1-POST_DAY_10	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047568	Normal
1036893	Water	2023-11-14	B3-3-POST_DAY_7	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	50	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047651	Normal
1036504	Water	2023-10-30	B1-1	16/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044706	Normal
1036504	Water	2023-10-30	B1-4	16/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044715	Normal
1036504	Water	2023-10-30	B1-6	16/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044742	Normal
1036504	Soil	2023-10-26	B1-6	16/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044741	Normal
1036504	Soil	2023-10-30	B2-1	16/10/2023	PFAS surrogates	(13						

Surrogates

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1030176	Water	2023-10-06	BT-2-5-3	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067088	Normal
1030176	Water	2023-10-06	BT-3-3-2	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067103	Normal
1030176	Water	2023-10-06	BT-3-3-3	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067104	Normal
1030176	Water	2023-10-06	BT-3-5-1	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067105	Normal
1030176	Water	2023-10-06	BT-3-5-3	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067107	Normal
1030176	Water	2023-10-06	BT-4-5-3	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067126	Normal
1030176	Water	2023-10-10	BT-1-5-3	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067069	Normal
1036504	Water	2023-10-30	B3-1	16/10/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044730	Normal
1036504	Soil	2023-10-26	B3-1	16/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044729	Normal
1036504	Water	2023-10-30	B3-2	16/10/2023	PFAS surrogates	13C8-FOSA (surr.)	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044733	Normal
1036504	Soil	2023-10-30	QC01	17/10/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044744	Field_D
1036504	Soil	2023-10-30	QC05	17/10/2023	PFAS surrogates	13C8-FOSA (surr.)	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044754	Field_D
1026894	Soil	2023-09-20	S001	15/09/2023	PFAS surrogates	(13C3-PFB5) Surrogate	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039313	Normal
1026894	Soil	2023-09-20	S005	15/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039314	Normal
1028097	Soil	2023-09-27	W002	15/09/2023	PFAS surrogates	13C5-PFNA (surr.)	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049212	Normal
1028097	Soil	2023-09-27	W003	15/09/2023	PFAS surrogates	13C5-PFNA (surr.)	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049213	Normal
1026894	Water	2023-09-20	W004	15/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039306	Normal
1026894	Water	2023-09-20	W008	15/09/2023	PFAS surrogates	13C5-PFNA (surr.)	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310	Normal
1026894	Water	2023-09-20	W010	15/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039312	Normal
1026894	Water	2023-09-20	W010	15/09/2023	PFAS surrogates	13C5-PFHxA (surr.)	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039312	Normal
1026894	Water	2023-09-20	W010	15/09/2023	PFAS surrogates	13C8-PFOA	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039312	Normal
1036893	Soil	2023-11-02	B3-1-POST	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047627	Normal
1036893	Soil	2023-11-06	B2-1-POST	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047591	Normal
1036893	Water	2023-11-02	B1-2-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047571	Normal
1036893	Water	2023-11-09	B1-1-POST_DAY_1	19/10/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047559	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_4	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047613	Normal
1036893	Water	2023-11-10	B2-1-POST_DAY_6	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047599	Normal
1036893	Water	2023-11-13	B3-1-POST_DAY_8	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047636	Normal
1036893	Water	2023-11-14	B1-1-POST_DAY_10	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047568	Normal
1036893	Water	2023-11-14	B1-1-POST_DAY_7	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047565	Normal
1036893	Water	2023-11-14	B1-3-POST_DAY_7	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	51	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047581	Normal
1036504	Water	2023-10-30	B1-1	16/10/2023	PFAS surrogates	13C6-PFDA (surr.)	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044706	Normal
1036504	Water	2023-10-30	B1-4	16/10/2023		13C8 PFOS	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044715	Normal
1036504	Soil	2023-10-30	B2-1	16/10/2023	PFAS surrogates	(13C3-PFB5) Surrogate	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044716	Normal
1030176	Soil	2023-10-06	BT-1-0-3	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067058	Normal
1030176	Soil	2023-10-06	BT-2-0-1	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067071	Normal
1030176	Soil	2023-10-06	BT-2-0-3	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067077	Normal
1030176	Soil	2023-10-06	BT-3-0-1	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067090	Normal
1030176	Soil	2023-10-06	BT-4-0-1	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067109	Normal
1030176	Soil	2023-10-11	BT-4-0-1	28/09/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067110	Normal
1030176	Soil	2023-10-11	BT-4-0-1	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067110	Normal
1030176	Soil	2023-10-11	BT-4-0-1	28/09/2023	PFAS surrogates	13C8-PFOA	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067110	Normal
1030176	Soil	2023-10-11	BT-4-0-1	28/09/2023		13C8 PFOS	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067110	Normal
1030176	Water	2023-10-06	BT-1-1-3	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067063	Normal
1030176	Water	2023-10-06	BT-2-0-1	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067073	Normal
1030176	Water	2023-10-06	BT-2-1-3	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067082	Normal
1030176	Water	2023-10-06	BT-2-1-3	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067082	Normal
1030176	Water	2023-10-06	BT-2-3-1	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067083	Normal
1030176	Water	2023-10-06	BT-2-5-2	28/09/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067087	Normal
1030176	Water	2023-10-06	BT-3-0-1	28/09/2023		13C8 PFOS	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067092	Normal
1030176	Water	2023-10-06	BT-3-1-3	28/09/2023	PFAS surrogates	13C8-PFOA	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067101	Normal
1030176	Water	2023-10-06	BT-3-1-3	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067101	Normal
1030176	Water	2023-10-06	BT-3-5-3	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067107	Normal
1030176	Water	2023-10-06	BT-3-5-3	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067107	Normal
1030176	Water	2023-10-06	BT-4-0-3	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067117	Normal
1030176	Water	2023-10-06	BT-4-3-1	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067121	Normal
1030176	Water	2023-10-06	BT-4-3-2	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067122	Normal
1030176	Water	2023-10-06	BT-4-5-2	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067125	Normal
1036504	Water	2023-10-30	B2-1	16/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044718	Normal
1036504	Water	2023-10-30	B2-1	16/10/2023	PFAS surrogates	13C6-PFDA (surr.)	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044718	Normal
1036504	Water	2023-10-30	B2-1	16/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044718	Normal
1036504	Soil	2023-10-26	B2-2	16/10/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044720	Normal
1036504	Water	2023-10-30	B2-2	16/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044721	Normal
1036504	Soil	2023-10-26	B2-4	16/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044726	Normal
1036504	Soil	2023-10-30	B2-6	17/10/2023		Extracted ISTD 1802 PFHxS	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044745	Normal
1036504	Water	2023-10-30	B3-3	16/10/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044736	Normal
1036504	Soil	2023-10-26	B3-3	16/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044735	Normal
1036504	Soil	2023-10-26	B3-3	16/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044735	Normal
1036504	Water	2023-10-30	B3-4	16/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044739	Normal
1036504	Soil	2023-10-30	QC03	17/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044749	Field_D
1036504	Soil	2023-10-30	QC03	17/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044748	Field_D
1026894	Soil	2023-09-20	S001	15/09/2023	PFAS surrogates	(13C4-PFHpa) Surrogate	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039313	Normal
1026894	Water	2023-09-20	W003	15/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039305	Normal
1026894	Water	2023-09-20	W004	15/09/2023	PFAS surrogates	13C5-PFHxA (surr.)	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039306	Normal
1036893	Soil	2023-11-06	B2-1-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047591	Normal
1036893	Soil	2023-11-06	B2-2-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047604	Normal
1036893	Soil	2023-11-06	B2-3-POST	19/10/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047607	Normal
1036893	Soil	2023-11-06	B2-5-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	52	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS		

Surrogates

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1036504	Water	2023-10-30	B2-1	16/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044718	Normal
1030176	Soil	2023-10-06	BT-1-0-3	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0067058	Normal
1030176	Soil	2023-10-06	BT-1-0-3	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0067058	Normal
1030176	Soil	2023-10-06	BT-1-0-3	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0067058	Normal
1030176	Soil	2023-10-06	BT-2-0-2	28/09/2023	PFAS surrogates	13C5-PFHx (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0067074	Normal
1030176	Soil	2023-10-06	BT-2-0-3	28/09/2023	PFAS surrogates	13C8-PFOA	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0067077	Normal
1030176	Soil	2023-10-11	BT-3-0-1	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0067091	Normal
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0067094	Normal
1030176	Water	2023-10-06	BT-1-3-1	28/09/2023		13C8 PFOS	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0067064	Normal
1030176	Water	2023-10-06	BT-2-0-1	28/09/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0067073	Normal
1030176	Water	2023-10-06	BT-2-1-3	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0067082	Normal
1030176	Water	2023-10-06	BT-2-3-3	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0067085	Normal
1030176	Water	2023-10-06	BT-2-5-2	28/09/2023	PFAS surrogates	13C8-PFOA	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0067087	Normal
1030176	Water	2023-10-06	BT-3-1-2	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0067100	Normal
1030176	Water	2023-10-06	BT-3-1-3	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0067101	Normal
1030176	Water	2023-10-06	BT-3-3-3	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0067104	Normal
1030176	Water	2023-10-06	BT-4-0-2	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0067114	Normal
1030176	Water	2023-10-06	BT-4-1-1	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0067118	Normal
1036504	Water	2023-10-30	B2-1	16/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044718	Normal
1036504	Soil	2023-10-30	B2-1	16/10/2023	PFAS surrogates	13C8-PFOA	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044716	Normal
1036504	Water	2023-10-30	B2-2	16/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044721	Normal
1036504	Water	2023-10-30	B2-2	16/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044721	Normal
1036504	Soil	2023-10-30	B2-3	16/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044722	Normal
1036504	Water	2023-10-30	B2-4	16/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044727	Normal
1036504	Soil	2023-10-30	B2-6	17/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044745	Normal
1036504	Soil	2023-10-30	B2-6	17/10/2023	PFAS surrogates	13C8-PFOA	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044745	Normal
1036504	Water	2023-10-30	B3-1	16/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044730	Normal
1036504	Soil	2023-10-30	QC01	17/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044744	Field_D
1036504	Soil	2023-10-30	QC01	17/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044744	Field_D
1036504	Soil	2023-10-30	QC03	17/10/2023	PFAS surrogates	13C8-PFOA	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044749	Field_D
1026894	Soil	2023-09-20	S001	15/09/2023	PFAS surrogates	13C2-PFDa (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0039313	Normal
1026894	Soil	2023-09-20	S006	15/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0039315	Normal
1026894	Soil	2023-09-20	S008	15/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0039316	Normal
1036893	Soil	2023-11-02	B3-4-POST	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047656	Normal
1036893	Soil	2023-11-06	B2-1-POST	19/10/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047591	Normal
1036893	Soil	2023-11-06	B2-4-POST	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047620	Normal
1036893	Soil	2023-11-06	B3-2-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047639	Normal
1036893	Water	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047593	Normal
1036893	Water	2023-11-02	B3-5-POST	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047660	Normal
1036893	Water	2023-11-02	QC19	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047661	Field_D
1036893	Water	2023-11-09	B1-1-POST_DAY_3	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047561	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_3	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047612	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_3	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047631	Normal
1036893	Water	2023-11-10	B2-1-POST_DAY_5	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047598	Normal
1036893	Water	2023-11-10	B2-1-POST_DAY_5	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047598	Normal
1036893	Water	2023-11-10	B2-1-POST_DAY_6	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047599	Normal
1036893	Water	2023-11-10	B3-1-POST_DAY_6	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047634	Normal
1036893	Water	2023-11-10	B3-1-POST_DAY_6	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047634	Normal
1036893	Water	2023-11-13	B2-3-POST_DAY_9	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047618	Normal
1036893	Water	2023-11-13	B2-3-POST_DAY_9	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047618	Normal
1036893	Water	2023-11-14	B1-1-POST_DAY_7	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047565	Normal
1036893	Water	2023-11-14	B2-1-POST_DAY_7	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047600	Normal
1036893	Water	2023-11-14	B2-1-POST_DAY_7	19/10/2023		13C8 PFOS	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047600	Normal
1036893	Water	2023-11-14	B2-1-POST_DAY_7	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047600	Normal
1036893	Water	2023-11-14	B3-1-POST_DAY_10	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	53	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047638	Normal
1036504	Water	2023-10-30	B1-1	16/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044706	Normal
1036504	Water	2023-10-30	B1-1	16/10/2023	PFAS surrogates	13C2-PFDa (surr.)	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044706	Normal
1036504	Water	2023-10-30	B1-4	16/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044715	Normal
1036504	Water	2023-10-30	B2-1	16/10/2023	PFAS surrogates	13C8-FOSA (surr.)	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044718	Normal
1036504	Water	2023-10-30	B2-1	16/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044718	Normal
1030176	Soil	2023-10-06	BT-1-0-3	28/09/2023	PFAS surrogates	13C8-PFOA	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0067058	Normal
1030176	Soil	2023-10-06	BT-2-0-1	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0067071	Normal
1030176	Soil	2023-10-06	BT-2-0-2	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0067074	Normal
1030176	Soil	2023-10-06	BT-3-0-1	28/09/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0067090	Normal
1030176	Soil	2023-10-06	BT-4-0-3	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0067115	Normal
1030176	Water	2023-10-06	BT-1-0-2	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0067057	Normal
1030176	Water	2023-10-06	BT-1-1-1	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0067061	Normal
1030176	Water	2023-10-06	BT-1-3-2	28/09/2023		13C8 PFOS	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0067065	Normal
1030176	Water	2023-10-06	BT-1-5-1	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0067067	Normal
1030176	Water	2023-10-06	BT-2-0-3	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0067079	Normal
1030176	Water	2023-10-06	BT-2-1-3	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0067082	Normal
1030176	Water	2023-10-06	BT-3-0-1	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0067092	Normal
1030176	Water	2023-10-06	BT-3-0-2	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0067095	Normal
1030176	Water	2023-10-06	BT-3-0-3	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0067098	Normal
1030176	Water	2023-10-06	BT-3-1-1	28/09/2023	PFAS surrogates	13C2-PFDa (surr.)	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0067099	Normal
1030176	Water	2023-10-06	BT-3-1-2	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e0067100	Normal
1030176	Water	2023-10-06	BT-3-1-3	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-5e00	

Surrogates													
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type	
1036504	Water	2023-10-30	B3-4	16/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044739	Normal	
1036504	Soil	2023-10-30	QC01	17/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044744	Field_D	
1036504	Soil	2023-10-30	QC01	17/10/2023	PFAS surrogates	13C6-PFDA (surr.)	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044744	Field_D	
1036504	Soil	2023-10-30	QC01	17/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044744	Field_D	
1036504	Soil	2023-10-30	QC03	17/10/2023	PFAS surrogates	13C5-PFNA (surr.)	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044749	Field_D	
1036504	Soil	2023-10-30	QC05	17/10/2023		13C8 PFOS	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044754	Field_D	
1026894	Soil	2023-09-20	S001	15/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039313	Normal	
1026894	Water	2023-09-20	W003	15/09/2023	PFAS surrogates	13C5-PFNA (surr.)	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039305	Normal	
1026894	Water	2023-09-20	W004	15/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039306	Normal	
1026894	Water	2023-09-20	W008	15/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310	Normal	
1026894	Water	2023-09-20	W010	15/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039312	Normal	
1036893	Soil	2023-11-02	B3-4-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047656	Normal	
1036893	Soil	2023-11-06	B2-3-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047607	Normal	
1036893	Soil	2023-11-06	B3-2-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047639	Normal	
1036893	Soil	2023-11-06	B3-3-POST	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047642	Normal	
1036893	Water	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047625	Normal	
1036893	Water	2023-11-09	B1-1-POST_DAY_3	19/10/2023	PFAS surrogates	D3-N-MeFOSE (surr.)	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047561	Normal	
1036893	Water	2023-11-09	B1-3-POST_DAY_3	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047577	Normal	
1036893	Water	2023-11-09	B1-3-POST_DAY_3	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047577	Normal	
1036893	Water	2023-11-10	B2-1-POST_DAY_5	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047598	Normal	
1036893	Water	2023-11-10	B2-1-POST_DAY_6	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047599	Normal	
1036893	Water	2023-11-10	B2-1-POST_DAY_6	19/10/2023		Extracted ISTD 1802 PFHxS	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047599	Normal	
1036893	Water	2023-11-10	B3-1-POST_DAY_6	19/10/2023		Extracted ISTD 1802 PFHxS	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047634	Normal	
1036893	Water	2023-11-10	B3-3-POST_DAY_5	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047649	Normal	
1036893	Water	2023-11-13	B1-1-POST_DAY_9	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047567	Normal	
1036893	Water	2023-11-14	B2-1-POST_DAY_7	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047600	Normal	
1036893	Water	2023-11-14	B3-1-POST_DAY_10	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047638	Normal	
1036893	Water	2023-11-14	B3-3-POST_DAY_10	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	54	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047654	Normal	
1036504	Water	2023-10-30	B1-1	16/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044706	Normal	
1036504	Soil	2023-10-30	BT-1	16/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044704	Normal	
1030176	Soil	2023-10-06	BT-2-0-2	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067074	Normal	
1030176	Soil	2023-10-06	BT-3-0-1	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067090	Normal	
1030176	Soil	2023-10-06	BT-3-0-2	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067093	Normal	
1030176	Soil	2023-10-06	BT-3-0-3	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067096	Normal	
1030176	Soil	2023-10-06	BT-4-0-2	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067112	Normal	
1030176	Soil	2023-10-11	BT-3-0-1	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067091	Normal	
1030176	Water	2023-10-06	BT-1-0-1	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054	Normal	
1030176	Water	2023-10-06	BT-1-1-1	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067061	Normal	
1030176	Water	2023-10-06	BT-1-3-1	28/09/2023	PFAS surrogates	13C8-PFOA	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067064	Normal	
1030176	Water	2023-10-06	BT-1-3-1	28/09/2023		Extracted ISTD 1802 PFHxS	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067064	Normal	
1030176	Water	2023-10-06	BT-1-3-2	28/09/2023	PFAS surrogates	13C8-PFOA	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067065	Normal	
1030176	Water	2023-10-06	BT-2-0-1	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067073	Normal	
1030176	Water	2023-10-06	BT-2-3-1	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067083	Normal	
1030176	Water	2023-10-06	BT-2-3-2	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067084	Normal	
1030176	Water	2023-10-06	BT-3-0-1	28/09/2023		Extracted ISTD 1802 PFHxS	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067092	Normal	
1030176	Water	2023-10-06	BT-3-1-2	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067100	Normal	
1030176	Water	2023-10-06	BT-3-1-3	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067101	Normal	
1030176	Water	2023-10-06	BT-3-5-3	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067107	Normal	
1030176	Water	2023-10-06	BT-4-1-1	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067118	Normal	
1030176	Water	2023-10-06	BT-4-1-1	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067118	Normal	
1036504	Soil	2023-10-26	B1-3	16/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044711	Normal	
1036504	Water	2023-10-30	B1-4	16/10/2023	PFAS surrogates	13C5-PFNA (surr.)	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044715	Normal	
1036504	Soil	2023-10-26	B1-4	16/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044714	Normal	
1036504	Water	2023-10-30	B2-3	16/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044724	Normal	
1036504	Soil	2023-10-30	B2-4	16/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044725	Normal	
1036504	Water	2023-10-30	B2-6	17/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044747	Normal	
1036504	Soil	2023-10-26	B3-2	16/10/2023	PFAS surrogates	13C8-FOSA (surr.)	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044732	Normal	
1036504	Water	2023-10-30	B3-3	16/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044736	Normal	
1036504	Soil	2023-10-26	B3-3	16/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044735	Normal	
1036504	Water	2023-10-30	B3-4	16/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044739	Normal	
1036504	Soil	2023-10-26	B3-4	16/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044738	Normal	
1036504	Soil	2023-10-30	QC01	17/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044744	Field_D	
1036504	Soil	2023-10-30	QC01	17/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044744	Field_D	
1036504	Soil	2023-10-30	QC03	17/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044749	Field_D	
1026894	Water	2023-09-20	W002	15/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	55	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039304	Normal	
1026894	Water	2023-09-											

Surrogates

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1030176	Water	2023-10-06	BT-1-0-1	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054	Normal
1030176	Water	2023-10-06	BT-1-3-1	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067064	Normal
1030176	Water	2023-10-06	BT-1-3-1	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067064	Normal
1030176	Water	2023-10-06	BT-2-0-2	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067076	Normal
1030176	Water	2023-10-06	BT-2-1-3	28/09/2023		Extracted ISTD 1802 PFHxS	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067082	Normal
1030176	Water	2023-10-06	BT-2-3-2	28/09/2023	PFAS surrogates	13C8-PFOA	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067084	Normal
1030176	Water	2023-10-06	BT-3-1-1	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067099	Normal
1030176	Water	2023-10-06	BT-3-5-3	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067107	Normal
1030176	Water	2023-10-06	BT-3-5-3	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067107	Normal
1030176	Water	2023-10-06	BT-3-5-3	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067107	Normal
1030176	Water	2023-10-06	BT-4-3-2	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067122	Normal
1036504	Water	2023-10-30	B2-1	16/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044718	Normal
1036504	Water	2023-10-30	B2-2	16/10/2023	PFAS surrogates	13C8-FOSA (surr.)	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044721	Normal
1036504	Soil	2023-10-30	B2-3	16/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044722	Normal
1036504	Water	2023-10-30	B2-3	16/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044724	Normal
1036504	Water	2023-10-30	B2-4	16/10/2023		13C8 PFOS	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044727	Normal
1036504	Soil	2023-10-30	B2-4	16/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044725	Normal
1036504	Water	2023-10-30	B2-6	17/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044747	Normal
1036504	Soil	2023-10-26	B3-1	16/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044729	Normal
1036504	Soil	2023-10-30	B3-1	16/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044728	Normal
1036504	Water	2023-10-30	B3-1	16/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044730	Normal
1036504	Water	2023-10-30	B3-4	16/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044739	Normal
1036504	Water	2023-10-30	B3-4	16/10/2023	PFAS surrogates	13C6-PFDA (surr.)	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044739	Normal
1036504	Water	2023-10-30	B3-4	16/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044739	Normal
1036504	Soil	2023-10-30	QC01	17/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044744	Field_D
1036504	Soil	2023-10-30	QC01	17/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044744	Field_D
1036504	Soil	2023-10-30	QC03	17/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044748	Field_D
1026894	Soil	2023-09-20	S001	15/09/2023		Extracted ISTD 1802 PFHxS	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039313	Normal
1028097	Soil	2023-09-27	W002	15/09/2023	PFAS surrogates	13C6-PFDA (surr.)	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049212	Normal
1026894	Water	2023-09-20	W003	15/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039305	Normal
1036893	Soil	2023-11-02	B1-4-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047586	Normal
1036893	Soil	2023-11-02	B2-3-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047608	Normal
1036893	Soil	2023-11-06	B1-4-POST	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047585	Normal
1036893	Soil	2023-11-06	B2-1-POST	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047591	Normal
1036893	Water	2023-11-02	B1-1-POST	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047558	Normal
1036893	Water	2023-11-02	B1-1-POST	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047558	Normal
1036893	Water	2023-11-02	B1-2-POST	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047571	Normal
1036893	Water	2023-11-02	QC19	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047661	Field_D
1036893	Water	2023-11-09	B1-1-POST_DAY_3	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047561	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_2	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047630	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_2	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047646	Normal
1036893	Water	2023-11-10	B2-1-POST_DAY_5	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047598	Normal
1036893	Water	2023-11-10	B3-1-POST_DAY_5	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047633	Normal
1036893	Water	2023-11-10	B3-1-POST_DAY_6	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047634	Normal
1036893	Water	2023-11-14	B2-1-POST_DAY_10	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047603	Normal
1036893	Water	2023-11-14	B2-3-POST_DAY_10	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047619	Normal
1036893	Water	2023-11-14	B3-1-POST_DAY_10	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047638	Normal
1036893	Water	2023-11-14	B3-3-POST_DAY_7	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	56	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047651	Normal
1036504	Water	2023-10-30	B1-1	16/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044706	Normal
1036504	Water	2023-10-30	B1-1	16/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044706	Normal
1036504	Soil	2023-10-30	B1-2	16/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	153	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044707	Normal
1036504	Soil	2023-10-26	B1-3	16/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044711	Normal
1036504	Water	2023-10-30	B1-6	16/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044742	Normal
1036504	Soil	2023-10-26	B1-6	16/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044741	Normal
1036504	Water	2023-10-30	B2-2	16/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044721	Normal
1030176	Soil	2023-10-06	BT-3-0-1	28/09/2023		Extracted ISTD 1802 PFHxS	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067090	Normal
1030176	Soil	2023-10-06	BT-3-0-2	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067093	Normal
1030176	Soil	2023-10-06	BT-3-0-3	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067096	Normal
1030176	Soil	2023-10-06	BT-4-0-3	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067115	Normal
1030176	Soil	2023-10-11	BT-2-0-2	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067075	Normal
1030176	Soil	2023-10-11	BT-3-0-1	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067091	Normal
1030176	Soil	2023-10-11	BT-4-0-3	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067116	Normal
1030176	Soil	2023-10-11	BT-4-0-3	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067116	Normal
1030176	Soil	2023-10-11	BT-4-0-3	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067116	Normal
1030176	Soil	2023-10-11	BT-4-0-3	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067116	Normal
1030176	Soil	2023-10-11	BT-4-0-3	28/09/2023	PFAS surrogates	13C8-PFOA	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067116	Normal
1030176	Water	2023-10-06	BT-1-0-3	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067060	Normal
1030176	Water	2023-10-06	BT-2-0-2	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067076	Normal
1030176	Water	2023-10-06	BT-2-5-1	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067086	Normal
1030176	Water	2023-10-06	BT-2-5-3	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067088	Normal
1030176	Water	2023-10-06	BT-3-0-3	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067098	Normal
1030176	Water	2023-10-06	BT-3-1-2	28/09/2023	PFAS surrogates	13C8-PFOA	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067100	Normal
1030176	Water	2023-10-06	BT-3-1-3	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067101	Normal
1030176	Water	2023-10-06	BT-3-3-3	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067104	Normal
1030176	Water	2023-10-06	BT-3-5-2	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067106	Normal
1030176	Water	2023-10-06	BT-4-0-3	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067117	Normal
1030176	Water	2023-10-06	BT-4-5-2	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067125	Normal
1036504	Water	2023-10-30	B2-3	16/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	57	20	1			

Surrogates

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1026894	Soil	2023-09-20	S005	15/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039314	Normal
1026894	Soil	2023-09-20	S005	15/09/2023	PFAS surrogates	13C5-PFHxA (surr.)	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039314	Normal
1026894	Soil	2023-09-20	S006	15/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039315	Normal
1028097	Soil	2023-09-27	W002	15/09/2023	PFAS surrogates	(13C2-PFtEDA) Surrogate	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049212	Normal
1026894	Water	2023-09-20	W002	15/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039304	Normal
1026894	Water	2023-09-20	W002	15/09/2023	PFAS surrogates	13C6-PFDA (surr.)	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039304	Normal
1026894	Water	2023-09-20	W006	15/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039308	Normal
1026894	Water	2023-09-20	W007	15/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039309	Normal
1036893	Soil	2023-11-06	B1-4-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047585	Normal
1036893	Soil	2023-11-06	B3-4-POST	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047655	Normal
1036893	Soil	2023-11-06	B3-4-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047655	Normal
1036893	Water	2023-11-02	B3-3-POST	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047644	Normal
1036893	Water	2023-11-02	B3-5-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047660	Normal
1036893	Water	2023-11-02	QC23	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047663	Field_D
1036893	Water	2023-11-09	B2-1-POST_DAY_1	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047594	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_1	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047629	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_3	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047631	Normal
1036893	Water	2023-11-10	B3-1-POST_DAY_6	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047634	Normal
1036893	Water	2023-11-10	B3-1-POST_DAY_6	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047634	Normal
1036893	Water	2023-11-10	B3-3-POST_DAY_5	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047649	Normal
1036893	Water	2023-11-13	B3-1-POST_DAY_9	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047637	Normal
1036893	Water	2023-11-13	B3-3-POST_DAY_9	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047653	Normal
1036893	Water	2023-11-14	B2-1-POST_DAY_7	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047600	Normal
1036893	Water	2023-11-14	B2-3-POST_DAY_10	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047619	Normal
1036893	Water	2023-11-14	B2-3-POST_DAY_7	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047616	Normal
1036893	Water	2023-11-14	B3-3-POST_DAY_10	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047654	Normal
1036504	Water	2023-10-30	B1-3	16/10/2023	PFAS surrogates	(13C2-PFtEDA) Surrogate	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044712	Normal
1036504	Soil	2023-10-26	B1-6	16/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044741	Normal
1036504	Water	2023-10-30	B2-2	16/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044721	Normal
1036504	Water	2023-10-30	B2-2	16/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044721	Normal
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067052	Normal
1030176	Soil	2023-10-06	BT-3-0-3	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067096	Normal
1030176	Soil	2023-10-06	BT-3-0-3	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067096	Normal
1030176	Soil	2023-10-06	BT-4-0-3	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067115	Normal
1030176	Soil	2023-10-06	BT-4-0-3	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067115	Normal
1030176	Soil	2023-10-06	BT-4-0-3	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067115	Normal
1030176	Soil	2023-10-11	BT-3-0-3	28/09/2023	PFAS surrogates	(13C3-PFBs) Surrogates	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067097	Normal
1030176	Water	2023-10-06	BT-1-0-2	28/09/2023	PFAS surrogates	13C8-PFOA	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067057	Normal
1030176	Water	2023-10-06	BT-1-1-3	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067063	Normal
1030176	Water	2023-10-06	BT-2-1-1	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067080	Normal
1030176	Water	2023-10-06	BT-2-3-2	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067084	Normal
1030176	Water	2023-10-06	BT-3-3-2	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067103	Normal
1030176	Water	2023-10-06	BT-3-3-3	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067104	Normal
1030176	Water	2023-10-06	BT-4-1-2	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067119	Normal
1030176	Water	2023-10-06	BT-4-5-3	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067126	Normal
1030176	Water	2023-10-10	BT-1-1-2	28/09/2023	PFAS surrogates	(13C2-PFtEDA) Surrogate	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067062	Normal
1030176	Water	2023-10-10	BT-1-5-2	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068	Normal
1030176	Water	2023-10-10	BT-1-5-3	28/09/2023	PFAS surrogates	(13C2-PFtEDA) Surrogate	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067069	Normal
1036504	Soil	2023-10-30	B2-3	16/10/2023	PFAS surrogates	13C5-PFHxA (surr.)	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044722	Normal
1036504	Soil	2023-10-26	B3-1	16/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044729	Normal
1036504	Soil	2023-10-26	B3-1	16/10/2023	PFAS surrogates	13C3-PFBs) Surrogate	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044728	Normal
1036504	Soil	2023-10-26	B3-1	16/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044729	Normal
1036504	Soil	2023-10-26	B3-6	17/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044751	Normal
1036504	Soil	2023-10-30	QC03	17/10/2023	PFAS surrogates	13C8-PFOA	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044748	Field_D
1028097	Soil	2023-09-27	W003	15/09/2023	PFAS surrogates	13C6-PFDA (surr.)	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049213	Normal
1026894	Water	2023-09-20	W004	15/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039306	Normal
1026894	Water	2023-09-20	W004	15/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039306	Normal
1026894	Water	2023-09-20	W005	15/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039307	Normal
1036893	Soil	2023-11-02	B3-1-POST	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047627	Normal
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047569	Normal
1036893	Soil	2023-11-06	B3-2-POST	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047639	Normal
1036893	Soil	2023-11-06	B3-5-POST	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047658	Normal
1036893	Water	2023-11-02	B1-2-POST	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047571	Normal
1036893	Water	2023-11-02	B1-4-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047587	Normal
1036893	Water	2023-11-02	B1-5-POST	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047590	Normal
1036893	Water	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047606	Normal
1036893	Water	2023-11-02	B3-4-POST	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047657	Normal
1036893	Water	2023-11-10	B2-1-POST_DAY_5	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047598	Normal
1036893	Water	2023-11-10	B2-1-POST_DAY_6	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047599	Normal
1036893	Water	2023-11-10	B2-3-POST_DAY_5	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047614	Normal
1036893	Water	2023-11-10	B3-3-POST_DAY_5	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047649	Normal
1036893	Water	2023-11-13	B3-3-POST_DAY_8	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047652	Normal
1036893	Water	2023-11-13	B3-3-POST_DAY_8	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047652	Normal
1036893	Water	2023-11-14	B1-1-POST_DAY_7	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047565	Normal
1036893	Water	2023-11-14	B1-3-POST_DAY_10	19/10/2023	PFAS surrogates	(13C2-PFtEDA) Surrogate	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047584	Normal
1036893	Water	2023-11-14	B2-1-POST_DAY_10	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047603	Normal
1036893	Water	2023-11-14	B2-3-POST_DAY_7	19/10/2023	PFAS surrogates	(13C3-PFBs) Surrogate	58	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047616	Normal
1036893	Water	2023-11-14	B3-3									

Surrogates

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1030176	Water	2023-10-06	BT-3-3-3	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067104	Normal
1030176	Water	2023-10-06	BT-4-1-2	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067119	Normal
1030176	Water	2023-10-06	BT-4-3-2	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067122	Normal
1030176	Water	2023-10-10	BT-1-1-2	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067062	Normal
1036504	Soil	2023-10-30	B1-3	16/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044710	Normal
1036504	Soil	2023-10-30	B1-4	16/10/2023	PFAS surrogates	13C5-PFHxA (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044713	Normal
1036504	Water	2023-10-30	B2-1	16/10/2023		13C8 PFOS	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044718	Normal
1036504	Soil	2023-10-26	B2-2	16/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044720	Normal
1036504	Soil	2023-10-30	B2-3	16/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044722	Normal
1036504	Soil	2023-10-26	B2-4	16/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044726	Normal
1036504	Soil	2023-10-30	B2-4	16/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044725	Normal
1036504	Soil	2023-10-30	B2-6	17/10/2023	PFAS surrogates	13C5-PFNA (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044745	Normal
1036504	Soil	2023-10-30	B2-6	17/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044745	Normal
1036504	Water	2023-10-30	B3-2	16/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044733	Normal
1036504	Soil	2023-10-26	B3-2	16/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044732	Normal
1036504	Water	2023-10-30	B3-3	16/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044736	Normal
1036504	Water	2023-10-30	B3-3	16/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044736	Normal
1036504	Water	2023-10-30	B3-4	16/10/2023	PFAS surrogates	13C8-FOSA (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044739	Normal
1036504	Water	2023-10-30	B3-6	17/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044752	Normal
1036504	Soil	2023-10-30	QC03	17/10/2023		13C8 PFOS	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044749	Field_D
1036504	Soil	2023-10-30	QC03	17/10/2023	PFAS surrogates	13C8-FOSA (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044749	Field_D
1036504	Soil	2023-10-30	QC05	17/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044753	Field_D
1026894	Soil	2023-09-20	S005	15/09/2023	PFAS surrogates	13C8-FOSA (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039314	Normal
1026894	Water	2023-09-20	W003	15/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039305	Normal
1036893	Soil	2023-11-02	B1-3-POST	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047573	Normal
1036893	Soil	2023-11-02	B1-4-POST	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047586	Normal
1036893	Soil	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047592	Normal
1036893	Soil	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047624	Normal
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047569	Normal
1036893	Soil	2023-11-06	B2-1-POST	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047591	Normal
1036893	Soil	2023-11-06	B2-2-POST	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047604	Normal
1036893	Soil	2023-11-06	B2-4-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047620	Normal
1036893	Soil	2023-11-06	B3-4-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047655	Normal
1036893	Water	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047593	Normal
1036893	Water	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047622	Normal
1036893	Water	2023-11-02	B3-4-POST	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047657	Normal
1036893	Water	2023-11-09	B1-1-POST_DAY_1	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047559	Normal
1036893	Water	2023-11-09	B1-1-POST_DAY_2	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047560	Normal
1036893	Water	2023-11-09	B1-3-POST_DAY_1	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047575	Normal
1036893	Water	2023-11-09	B1-3-POST_DAY_3	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047577	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_3	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047631	Normal
1036893	Water	2023-11-10	B1-3-POST_DAY_5	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047579	Normal
1036893	Water	2023-11-10	B1-3-POST_DAY_5	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047579	Normal
1036893	Water	2023-11-10	B3-1-POST_DAY_5	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047633	Normal
1036893	Water	2023-11-10	B3-1-POST_DAY_5	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047633	Normal
1036893	Water	2023-11-10	B3-1-POST_DAY_6	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047634	Normal
1036893	Water	2023-11-10	B3-3-POST_DAY_5	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047649	Normal
1036893	Water	2023-11-10	B3-3-POST_DAY_5	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047649	Normal
1036893	Water	2023-11-13	B3-1-POST_DAY_9	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047637	Normal
1036893	Water	2023-11-13	B3-1-POST_DAY_9	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047637	Normal
1036893	Water	2023-11-13	B3-3-POST_DAY_8	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047652	Normal
1036893	Water	2023-11-14	B1-1-POST_DAY_7	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047565	Normal
1036893	Water	2023-11-14	B1-1-POST_DAY_7	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047565	Normal
1036893	Water	2023-11-14	B2-1-POST_DAY_7	19/10/2023	PFAS surrogates	13C8-PFOA	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047600	Normal
1036893	Water	2023-11-14	B3-1-POST_DAY_7	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047635	Normal
1036504	Water	2023-10-30	B1-4	16/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	60	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044715	Normal
1036504	Water	2023-10-30	B1-4	16/10/2023	PFAS surrogates	13C8-PFOA	60	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044715	Normal
1036504	Soil	2023-10-26	B1-4	16/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	60	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044714	Normal
1036504	Soil	2023-10-26	B1-6	16/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	60	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044741	Normal
1036504	Soil	2023-10-30	B1-6	16/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	60	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044740	Normal
1036504	Water	2023-10-30	B1-6	16/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	60	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044742	Normal
1030176	Soil	2023-10-06	BT-1-0-2	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate	60	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067055	Normal
1030176	Soil	2023-10-06	BT-3-0-3	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)	60	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067096	Normal
1030176	Soil	2023-10-06	BT-3-0-3	28/09/2023		Extracted ISTD 1802 PFHxS	60	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067096	Normal
1030176	Soil	2023-10-06	BT-4-0-1	28/09/2023		Extracted ISTD 1802 PFHxS	60	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067109	Normal
1030176	Soil	2023-10-06	BT-4-0-3	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	60	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067115	Normal
1030176	Soil	2023-10-06	BT-4-0-3	28/09/2023	PFAS surrogates	13C8-PFOA	60	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067115	Normal
1030176	Soil	2023-10-11	BT-2-0-2	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)	60	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067075	Normal
1030176	Soil	2023-10-11	BT-3-0-1	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	60	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067091	Normal
1030176	Soil	2023-10-11	BT-3-0-3	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	60	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067097	Normal
1030176	Water	2023-10-06	BT-1-0-1	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	60	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054	Normal
1030176	Water	2023-10-06	BT-1-0-2	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	60	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067057	Normal
1030176	Water	2023-10-06	BT-1-0-3	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate	60	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067060	Normal
1030176	Water	2023-10-06	BT-1-1-3	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)	60	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067063	Normal
1030176	Water	2023-10-06	BT-2-0-3	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)	60	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067079	Normal
1030176	Water	2023-10-06	BT-2-1-3	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	60	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067082	Normal
1030176	Water	2023-10-06	BT-2-5-3	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	60	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067088	Normal
1030176	Water	2023-10-06	BT-3-3-3	28/09/2023	PFAS surrogates	13C2-10:2						

Surrogates													
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type	
1036504	Soil	2023-10-30	B3-1	16/10/2023	PFAS surrogates	13C8-PFOA		60	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044728	Normal	
1036504	Water	2023-10-30	B3-3	16/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		60	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044736	Normal	
1036504	Water	2023-10-30	B3-6	17/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		60	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044752	Normal	
1036504	Soil	2023-10-30	QC01	17/10/2023	PFAS surrogates	13C8-FOSA (surr.)		60	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044744	Field_D	
1026894	Soil	2023-09-20	S001	15/09/2023	PFAS surrogates	13C5-PFHxA (surr.)		60	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039313	Normal	
1026894	Soil	2023-09-20	S005	15/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		60	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039314	Normal	
1026894	Water	2023-09-20	W001	15/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		60	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039303	Normal	
1026894	Water	2023-09-20	W003	15/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		60	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039305	Normal	
1026894	Water	2023-09-20	W010	15/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		60	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039312	Normal	
1026894	Water	2023-09-20	W010	15/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		60	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039312	Normal	
1036893	Soil	2023-11-02	B1-1-POST	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		60	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047557	Normal	
1036893	Soil	2023-11-06	B1-1-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		60	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047556	Normal	
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		60	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047569	Normal	
1036893	Soil	2023-11-06	B1-3-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		60	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047572	Normal	
1036893	Soil	2023-11-06	B2-5-POST	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		60	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047623	Normal	
1036893	Water	2023-11-02	B1-3-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		60	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047574	Normal	
1036893	Water	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		60	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047606	Normal	
1036893	Water	2023-11-09	B1-1-POST_DAY_4	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		60	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047562	Normal	
1036893	Water	2023-11-09	B3-1-POST_DAY_3	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		60	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047631	Normal	
1036893	Water	2023-11-10	B1-1-POST_DAY_5	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		60	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047563	Normal	
1036893	Water	2023-11-10	B1-3-POST_DAY_5	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		60	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047579	Normal	
1036893	Water	2023-11-10	B1-3-POST_DAY_6	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		60	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047580	Normal	
1036893	Water	2023-11-10	B2-1-POST_DAY_6	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		60	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047599	Normal	
1036893	Water	2023-11-10	B2-1-POST_DAY_6	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		60	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047599	Normal	
1036893	Water	2023-11-10	B3-1-POST_DAY_5	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		60	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047633	Normal	
1036893	Water	2023-11-10	B3-3-POST_DAY_5	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		60	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047649	Normal	
1036893	Water	2023-11-14	B1-1-POST_DAY_7	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		60	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047565	Normal	
1036893	Water	2023-11-14	B1-3-POST_DAY_10	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		60	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047584	Normal	
1036893	Water	2023-11-14	B2-1-POST_DAY_7	19/10/2023		Extracted ISTD 18O2 PFHxS		60	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047600	Normal	
1036504	Soil	2023-10-26	B1-3	16/10/2023	PFAS surrogates	13C8-FOSA (surr.)		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044711	Normal	
1036504	Soil	2023-10-30	B1-3	16/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044710	Normal	
1036504	Soil	2023-10-30	B2-4	16/10/2023		Extracted ISTD 18O2 PFHxS		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044725	Normal	
1030176	Soil	2023-10-06	BT-1-0-2	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067055	Normal	
1030176	Soil	2023-10-06	BT-1-0-3	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067058	Normal	
1030176	Soil	2023-10-06	BT-3-0-1	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067090	Normal	
1030176	Soil	2023-10-06	BT-4-0-1	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067109	Normal	
1030176	Soil	2023-10-11	BT-2-0-2	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067075	Normal	
1030176	Soil	2023-10-11	BT-2-0-2	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067075	Normal	
1030176	Soil	2023-10-11	BT-2-0-2	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067075	Normal	
1030176	Soil	2023-10-11	BT-2-0-2	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067075	Normal	
1030176	Soil	2023-10-11	BT-2-0-3	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067078	Normal	
1030176	Soil	2023-10-11	BT-2-0-3	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067078	Normal	
1030176	Soil	2023-10-11	BT-2-0-3	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067078	Normal	
1030176	Soil	2023-10-11	BT-2-0-3	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067078	Normal	
1030176	Soil	2023-10-11	BT-4-0-2	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067113	Normal	
1030176	Water	2023-10-06	BT-1-1-3	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067063	Normal	
1030176	Water	2023-10-06	BT-1-5-1	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067067	Normal	
1030176	Water	2023-10-06	BT-2-0-3	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067079	Normal	
1030176	Water	2023-10-06	BT-2-3-1	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067083	Normal	
1030176	Water	2023-10-06	BT-2-3-2	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067084	Normal	
1030176	Water	2023-10-06	BT-2-3-3	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067085	Normal	
1030176	Water	2023-10-06	BT-2-5-1	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067086	Normal	
1030176	Water	2023-10-06	BT-2-5-2	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067087	Normal	
1030176	Water	2023-10-06	BT-2-5-2	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067087	Normal	
1030176	Water	2023-10-06	BT-3-3-2	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067103	Normal	
1030176	Water	2023-10-06	BT-3-3-3	28/09/2023	PFAS surrogates	(13C3-PFB5) Surrogate		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067104	Normal	
1030176	Water	2023-10-06	BT-3-3-3	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067104	Normal	
1030176	Water	2023-10-06	BT-3-5-1	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067105	Normal	
1030176	Water	2023-10-06	BT-3-5-2	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067106	Normal	
1030176	Water	2023-10-06	BT-4-1-2	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067119	Normal	
1030176	Water	2023-10-06	BT-4-1-3	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067120	Normal	
1030176	Water	2023-10-06	BT-4-3-1	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067121	Normal	
1030176	Water	2023-10-06	BT-4-3-2	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067122	Normal	
1030176	Water	2023-10-06	BT-4-5-2	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067125	Normal	
1030176	Water	2023-10-10	BT-1-1-2	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se00670		

Surrogates

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1036893	Water	2023-11-09	B2-1-POST_DAY_3	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047596	Normal
1036893	Water	2023-11-10	B1-1-POST_DAY_5	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047563	Normal
1036893	Water	2023-11-10	B2-1-POST_DAY_5	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047598	Normal
1036893	Water	2023-11-13	B2-1-POST_DAY_8	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047601	Normal
1036893	Water	2023-11-13	B2-3-POST_DAY_8	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047617	Normal
1036893	Water	2023-11-13	B3-3-POST_DAY_9	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047653	Normal
1036893	Water	2023-11-13	B3-3-POST_DAY_9	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047653	Normal
1036893	Water	2023-11-14	B1-1-POST_DAY_10	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047568	Normal
1036893	Water	2023-11-14	B1-3-POST_DAY_10	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047584	Normal
1036893	Water	2023-11-14	B2-1-POST_DAY_10	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047603	Normal
1036893	Water	2023-11-14	B2-3-POST_DAY_10	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047619	Normal
1036504	Water	2023-10-30	B1-1	16/10/2023		13C8-PFOs		62	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044706	Normal
1036504	Soil	2023-10-26	B1-3	16/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		62	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044711	Normal
1036504	Soil	2023-10-26	B1-4	16/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		62	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044714	Normal
1036504	Soil	2023-10-26	B1-4	16/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		62	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044714	Normal
1030176	Soil	2023-10-06	BT-3-0-2	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		62	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067093	Normal
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		62	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094	Normal
1030176	Water	2023-10-06	BT-1-0-1	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		62	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054	Normal
1030176	Water	2023-10-06	BT-1-0-1	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		62	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054	Normal
1030176	Water	2023-10-06	BT-1-0-1	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)		62	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054	Normal
1030176	Water	2023-10-06	BT-1-3-2	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)		62	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067065	Normal
1030176	Water	2023-10-06	BT-2-0-3	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		62	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067079	Normal
1030176	Water	2023-10-06	BT-2-3-1	28/09/2023	PFAS surrogates	13C8-PFOA		62	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067083	Normal
1030176	Water	2023-10-06	BT-3-0-1	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate		62	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067092	Normal
1030176	Water	2023-10-06	BT-3-1-2	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		62	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067100	Normal</

Surrogates

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1030176	Water	2023-10-06	BT-4-0-2	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067114	Normal
1030176	Water	2023-10-06	BT-4-1-2	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067119	Normal
1030176	Water	2023-10-06	BT-4-1-3	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067120	Normal
1030176	Water	2023-10-06	BT-4-5-2	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067125	Normal
1030176	Water	2023-10-10	BT-1-5-2	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068	Normal
1036504	Soil	2023-10-30	B2-4	16/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044725	Normal
1036504	Water	2023-10-30	B2-6	17/10/2023	PFAS surrogates	13C6-PFDA (surr.)		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044747	Normal
1036504	Water	2023-10-30	B3-1	16/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044730	Normal
1036504	Water	2023-10-30	B3-1	16/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044730	Normal
1036504	Water	2023-10-30	B3-1	16/10/2023	PFAS surrogates	13C6-PFDA (surr.)		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044730	Normal
1036504	Soil	2023-10-26	B3-3	16/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044735	Normal
1036504	Water	2023-10-30	B3-3	16/10/2023	PFAS surrogates	13C6-PFDA (surr.)		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044736	Normal
1036504	Soil	2023-10-30	B3-4	16/10/2023	PFAS surrogates	13C8-FOSA (surr.)		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044737	Normal
1036504	Soil	2023-10-30	B3-6	17/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044750	Normal
1036504	Water	2023-10-30	B3-6	17/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044752	Normal
1026894	Soil	2023-09-20	S005	15/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039314	Normal
1026894	Soil	2023-09-20	S005	15/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039314	Normal
1028097	Soil	2023-09-27	W002	15/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049212	Normal
1028097	Soil	2023-09-27	W002	15/09/2023		Extracted ISTD 1802 PFHxS		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049212	Normal
1028097	Soil	2023-09-27	W003	15/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049213	Normal
1026894	Water	2023-09-20	W005	15/09/2023	PFAS surrogates	13C5-PFHxA (surr.)		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039307	Normal
1036893	Soil	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047624	Normal
1036893	Soil	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047624	Normal
1036893	Soil	2023-11-06	B1-5-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047588	Normal
1036893	Soil	2023-11-06	B3-1-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047626	Normal
1036893	Soil	2023-11-06	B3-3-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047642	Normal
1036893	Water	2023-11-02	B1-2-POST	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047571	Normal
1036893	Water	2023-11-02	B3-5-POST	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047660	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_1	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047594	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_1	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047610	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_1	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047629	Normal
1036893	Water	2023-11-10	B1-3-POST_DAY_5	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047579	Normal
1036893	Water	2023-11-10	B2-3-POST_DAY_5	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047614	Normal
1036893	Water	2023-11-13	B1-1-POST_DAY_9	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047567	Normal
1036893	Water	2023-11-13	B3-1-POST_DAY_8	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047636	Normal
1036893	Water	2023-11-13	B3-1-POST_DAY_9	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047637	Normal
1036893	Water	2023-11-13	B3-1-POST_DAY_9	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047637	Normal
1036893	Water	2023-11-13	B3-3-POST_DAY_8	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047652	Normal
1036893	Water	2023-11-14	B2-3-POST_DAY_10	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047619	Normal
1036893	Water	2023-11-14	B3-3-POST_DAY_7	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		63	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047651	Normal
1036504	Water	2023-10-30	B1-2	16/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		61	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044709	Normal
1036504	Soil	2023-10-26	B1-2	16/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044708	Normal
1036504	Water	2023-10-30	B1-4	16/10/2023		Extracted ISTD 1802 PFHxS		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044715	Normal
1036504	Soil	2023-10-26	B1-6	16/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044741	Normal
1036504	Soil	2023-10-26	B2-3	16/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044723	Normal
1036504	Water	2023-10-30	B2-4	16/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044727	Normal
1036504	Water	2023-10-30	B2-6	17/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044747	Normal
1030176	Soil	2023-10-06	BT-3-0-1	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067090	Normal
1030176	Soil	2023-10-06	BT-3-0-3	28/09/2023	PFAS surrogates	13C8-PFOA		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067096	Normal
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094	Normal
1030176	Water	2023-10-06	BT-2-0-2	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067076	Normal
1030176	Water	2023-10-06	BT-2-0-3	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067079	Normal
1030176	Water	2023-10-06	BT-2-3-2	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067084	Normal
1030176	Water	2023-10-06	BT-3-1-2	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067100	Normal
1030176	Water	2023-10-06	BT-4-5-2	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067125	Normal
1030176	Water	2023-10-10	BT-1-5-3	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067069	Normal
1030176	Water	2023-10-10	BT-1-5-3	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067069	Normal
1036504	Soil	2023-10-30	B2-6	17/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044745	Normal
1036504	Soil	2023-10-30	B2-6	17/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044745	Normal
1036504	Soil	2023-10-26	B3-1	16/10/2023		13C8 PFOS		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044729	Normal
1036504	Soil	2023-10-30	B3-1	16/10/2023	PFAS surrogates	13C8-FOSA (surr.)		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044728	Normal
1036504	Soil	2023-10-26	B3-2	16/10/2023	PFAS surrogates	13C6-PFDA (surr.)		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044732	Normal
1036504	Water	2023-10-30	B3-3	16/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044736	Normal
1036504	Water	2023-10-30	B3-3	16/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044736	Normal
1036504	Water	2023-10-30	B3-6	17/10/2023		13C8 PFOS		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044752	Normal
1036504	Soil	2023-10-26	B3-6	17/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044751	Normal
1036504	Soil	2023-10-30	QC05	17/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044753	Field_D
1036504	Soil	2023-10-30	QC05	17/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044754	Field_D
1036504	Soil	2023-10-30	QC05	17/10/2023	PFAS surrogates	13C8-FOSA (surr.)		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044753	Field_D
1026894	Soil	2023-09-20	S001	15/09/2023		13C8 PFOS		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039313	Normal
1026894	Soil	2023-09-20	S005	15/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039314	Normal
1026894	Soil	2023-09-20	S005	15/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039314	Normal
1026894	Soil	2023-09-20	S005	15/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039314	Normal
1026894	Soil	2023-09-20	S005	15/09/2023	PFAS surrogates	13C8-PFOA		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039314	Normal
1028097	Soil	2023-09-27	W003	15/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049213	Normal
1026894	Water	2023-09-20	W003	15/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039305	Normal
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047640	Normal
1036893	Soil	2023-11-06	B1-3-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047572	Normal
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Surrogates																		
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type						
1036893	Water	2023-11-09	B2-3-POST_DAY_3	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047612	Normal						
1036893	Water	2023-11-09	B2-3-POST_DAY_4	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047613	Normal						
1036893	Water	2023-11-10	B1-3-POST_DAY_5	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047579	Normal						
1036893	Water	2023-11-10	B3-1-POST_DAY_5	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047633	Normal						
1036893	Water	2023-11-10	B3-3-POST_DAY_5	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047649	Normal						
1036893	Water	2023-11-13	B2-1-POST_DAY_9	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047602	Normal						
1036893	Water	2023-11-14	B2-1-POST_DAY_7	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		64	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047600	Normal						
1036504	Water	2023-10-30	B1-2	16/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		41	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044709	Normal						
1036504	Soil	2023-10-26	B1-3	16/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044711	Normal						
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067052	Normal						
1030176	Soil	2023-10-11	BT-2-0-1	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067072	Normal						
1030176	Soil	2023-10-11	BT-2-0-1	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067072	Normal						
1030176	Soil	2023-10-11	BT-2-0-1	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067072	Normal						
1030176	Soil	2023-10-11	BT-2-0-1	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067072	Normal						
1030176	Soil	2023-10-11	BT-2-0-1	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067072	Normal						
1030176	Soil	2023-10-11	BT-2-0-2	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067075	Normal						
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094	Normal						
1030176	Soil	2023-10-11	BT-4-0-1	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067110	Normal						
1030176	Water	2023-10-06	BT-1-0-1	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054	Normal						
1030176	Water	2023-10-06	BT-1-0-3	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067060	Normal						
1030176	Water	2023-10-06	BT-1-5-1	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067067	Normal						
1030176	Water	2023-10-06	BT-2-0-3	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067079	Normal						
1030176	Water	2023-10-06	BT-2-0-3	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067079	Normal						
1030176	Water	2023-10-06	BT-2-1-1	28/09/2023	PFAS surrogates	13C8-PFOA		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067080	Normal						
1030176	Water	2023-10-06	BT-2-3-2	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067084	Normal						
1030176	Water	2023-10-06	BT-3-3-3	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067104	Normal						
1030176	Water	2023-10-10	BT-1-1-2	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067062	Normal						
1036504	Water	2023-10-30	B1-3	16/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044712	Normal						
1036504	Soil	2023-10-26	B1-3	16/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044711	Normal						
1036504	Water	2023-10-30	B1-3	16/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044712	Normal						
1036504	Water	2023-10-30	B1-6	16/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044742	Normal						
1036504	Soil	2023-10-30	B1-6	16/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044740	Normal						
1036504	Water	2023-10-30	B2-1	16/10/2023	PFAS surrogates	13C5-PFNA (surr.)		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044718	Normal						
1036504	Soil	2023-10-30	B2-2	16/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044719	Normal						
1036504	Soil	2023-10-26	B2-2	16/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044720	Normal						
1036504	Soil	2023-10-30	B2-2	16/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044719	Normal						
1036504	Soil	2023-10-30	B2-3	16/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044722	Normal						
1036504	Water	2023-10-30	B2-3	16/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044724	Normal						
1036504	Soil	2023-10-26	B2-3	16/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044723	Normal						
1036504	Water	2023-10-30	B2-4	16/10/2023	PFAS surrogates	13C5-PFNA (surr.)		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044727	Normal						
1036504	Soil	2023-10-26	B2-6	17/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044746	Normal						
1036504	Water	2023-10-30	B3-1	16/10/2023	PFAS surrogates	13C8 PFOS		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044730	Normal						
1036504	Soil	2023-10-30	B3-3	16/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044734	Normal						
1036504	Soil	2023-10-26	B3-3	16/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044735	Normal						
1036504	Soil	2023-10-30	B3-3	16/10/2023	PFAS surrogates	13C8-FOSA (surr.)		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044734	Normal						
1036504	Water	2023-10-30	B3-3	16/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044736	Normal						
1036504	Soil	2023-10-30	B3-4	16/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044737	Normal						
1036504	Water	2023-10-30	B3-4	16/10/2023	PFAS surrogates	13C8 PFOS		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044739	Normal						
1036504	Soil	2023-10-30	B3-6	17/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		65	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS								

Surrogates													Lab Sample ID	Sample Type
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name			Lab Sample ID	Sample Type
1030176	Water	2023-10-06	BT-2-3-2	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067084	Normal
1030176	Water	2023-10-06	BT-2-5-2	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067087	Normal
1030176	Water	2023-10-06	BT-3-0-3	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067098	Normal
1030176	Water	2023-10-06	BT-3-3-3	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067104	Normal
1030176	Water	2023-10-06	BT-4-0-1	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067111	Normal
1030176	Water	2023-10-06	BT-4-0-2	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067114	Normal
1030176	Water	2023-10-06	BT-4-1-2	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067119	Normal
1030176	Water	2023-10-06	BT-4-5-3	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067126	Normal
1030176	Water	2023-10-10	BT-1-1-2	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067062	Normal
1030176	Water	2023-10-10	BT-1-3-3	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067066	Normal
1036504	Soil	2023-10-26	B1-4	16/10/2023	PFAS surrogates	13C8-FOSA (surr.)	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044714	Normal
1036504	Soil	2023-10-30	B2-2	16/10/2023	PFAS surrogates	13C5-PFNA (surr.)	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044719	Normal
1036504	Soil	2023-10-26	B2-2	16/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044720	Normal
1036504	Soil	2023-10-26	B2-6	17/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044746	Normal
1036504	Water	2023-10-30	B3-3	16/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044736	Normal
1036504	Water	2023-10-30	B3-6	17/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044752	Normal
1036504	Soil	2023-10-30	QC03	17/10/2023	PFAS surrogates	13C8-FOSA (surr.)	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044748	Field_D
1026894	Soil	2023-09-20	S001	15/09/2023	PFAS surrogates	13C6-PFDA (surr.)	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0039313	Normal
1026894	Soil	2023-09-20	S006	15/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0039315	Normal
1026894	Water	2023-09-20	W002	15/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0039304	Normal
1028097	Soil	2023-09-27	W003	15/09/2023		Extracted ISTD 1802 PFHxS	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0049213	Normal
1036893	Soil	2023-11-02	B3-1-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047627	Normal
1036893	Soil	2023-11-06	B2-4-POST	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047620	Normal
1036893	Water	2023-11-02	B1-2-POST	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047571	Normal
1036893	Water	2023-11-02	B1-3-POST	19/10/2023		13C8 PFOS	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047574	Normal
1036893	Water	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047593	Normal
1036893	Water	2023-11-02	B3-5-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047660	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_1	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047594	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_1	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047645	Normal
1036893	Water	2023-11-10	B1-1-POST_DAY_6	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047564	Normal
1036893	Water	2023-11-13	B2-3-POST_DAY_8	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047617	Normal
1036893	Water	2023-11-14	B1-1-POST_DAY_10	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047568	Normal
1036893	Water	2023-11-14	B1-1-POST_DAY_7	19/10/2023	PFAS surrogates	13C8-PFOA	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047565	Normal
1036893	Water	2023-11-14	B1-1-POST_DAY_7	19/10/2023		13C8 PFOS	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047565	Normal
1036893	Water	2023-11-14	B1-3-POST_DAY_7	19/10/2023		13C8 PFOS	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047581	Normal
1036893	Water	2023-11-14	B2-1-POST_DAY_10	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047603	Normal
1036893	Water	2023-11-14	B2-3-POST_DAY_7	19/10/2023		13C8 PFOS	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047616	Normal
1036893	Water	2023-11-14	B3-1-POST_DAY_7	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047635	Normal
1036893	Water	2023-11-14	B3-3-POST_DAY_10	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)	66	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047654	Normal
1036504	Soil	2023-10-30	B1-2	16/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	68	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044707	Normal
1036504	Water	2023-10-30	B1-3	16/10/2023	PFAS surrogates	13C6-PFDA (surr.)	67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044712	Normal
1036504	Soil	2023-10-30	B1-4	16/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate	67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044713	Normal
1036504	Soil	2023-10-26	B1-6	16/10/2023	PFAS surrogates	13C8-FOSA (surr.)	67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044741	Normal
1036504	Soil	2023-10-30	B1-6	16/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044740	Normal
1030176	Soil	2023-10-06	BT-2-0-1	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067071	Normal
1030176	Soil	2023-10-06	BT-3-0-3	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate	67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067096	Normal
1030176	Soil	2023-10-11	BT-3-0-1	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate	67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067091	Normal
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067094	Normal
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067094	Normal
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023		13C8 PFOS	67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067094	Normal
1030176	Water	2023-10-06	BT-1-1-1	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067061	Normal
1030176	Water	2023-10-06	BT-1-5-1	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067067	Normal
1030176	Water	2023-10-06	BT-1-5-1	28/09/2023		13C8 PFOS	67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067067	Normal
1030176	Water	2023-10-06	BT-2-0-3	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067079	Normal
1030176	Water	2023-10-06	BT-2-3-1	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067083	Normal
1030176	Water	2023-10-06	BT-2-3-2	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067084	Normal
1030176	Water	2023-10-06	BT-2-5-1	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067086	Normal
1030176	Water	2023-10-06	BT-3-1-1	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067099	Normal
1030176	Water	2023-10-06	BT-3-1-3	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067101	Normal
1030176	Water	2023-10-06	BT-3-3-2	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067103	Normal
1030176	Water	2023-10-06	BT-4-5-2	28/09/2023	PFAS surrogates	(13C4-PFHpa) Surrogate	67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067125	Normal
1030176	Water	2023-10-06	BT-4-5-2	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067125	Normal
1036504	Soil	2023-10-26	B2-1	16/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044717	Normal
1036504	Soil	2023-10-30	B2-1	16/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044716	Normal
1036504	Soil	2023-10-26	B2-2	16/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044720	Normal
1036504	Soil	2023-10-26	B2-3	16/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044723	Normal
1036504	Soil	2023-10-30	B2-4	16/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044725	Normal
1036504	Soil	2023-10-26	B2-4	16/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044726	Normal
1036504	Soil	2023-10-30	B2-6	17/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044745	Normal
1036504	Soil	2023-10-26	B2-6	17/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044746	Normal
1036504	Soil	2023-10-30	B3-1	16/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044728	Normal
1036504	Water	2023-10-30	B3-1	16/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044730	Normal
1036504	Water	2023-10-30	B3-6											

Surrogates																			
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type							
1036893	Water	2023-11-09	B1-1-POST_DAY_2	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		67	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047560	Normal							
1036893	Water	2023-11-09	B1-1-POST_DAY_3	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		67	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047561	Normal							
1036893	Water	2023-11-09	B1-3-POST_DAY_1	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		67	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047575	Normal							
1036893	Water	2023-11-09	B1-3-POST_DAY_1	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		67	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047575	Normal							
1036893	Water	2023-11-09	B1-3-POST_DAY_2	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		67	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047576	Normal							
1036893	Water	2023-11-09	B1-3-POST_DAY_3	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		67	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047577	Normal							
1036893	Water	2023-11-09	B2-3-POST_DAY_1	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		67	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047610	Normal							
1036893	Water	2023-11-09	B2-3-POST_DAY_3	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		67	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047612	Normal							
1036893	Water	2023-11-09	B3-1-POST_DAY_1	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		67	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047629	Normal							
1036893	Water	2023-11-09	B3-3-POST_DAY_2	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		67	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047646	Normal							
1036893	Water	2023-11-10	B1-1-POST_DAY_5	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		67	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047563	Normal							
1036893	Water	2023-11-10	B1-3-POST_DAY_5	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		67	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047579	Normal							
1036893	Water	2023-11-10	B1-3-POST_DAY_6	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		67	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047580	Normal							
1036893	Water	2023-11-13	B1-1-POST_DAY_9	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		67	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047567	Normal							
1036893	Water	2023-11-13	B2-1-POST_DAY_9	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		67	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047602	Normal							
1036893	Water	2023-11-13	B2-1-POST_DAY_9	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		67	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047602	Normal							
1036893	Water	2023-11-13	B2-3-POST_DAY_8	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		67	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047602	Normal							
1036893	Water	2023-11-13	B2-3-POST_DAY_8	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		67	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047617	Normal							
1036893	Water	2023-11-13	B3-3-POST_DAY_9	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		67	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047653	Normal							
1036893	Water	2023-11-13	B3-3-POST_DAY_9	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		67	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047653	Normal							
1036893	Water	2023-11-14	B3-1-POST_DAY_10	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		67	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047638	Normal							
1036504	Water	2023-10-30	B1-1	16/10/2023	PFAS surrogates	(13C4-PFHpa) Surrogate		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044706	Normal							
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	PFAS surrogates	(13C4-PFHpa) Surrogate		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067052	Normal							
1030176	Soil	2023-10-06	BT-2-0-2	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067074	Normal							
1030176	Soil	2023-10-06	BT-4-0-2	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067112	Normal							
1030176	Soil	2023-10-06	BT-4-0-3	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067115	Normal							
1030176	Soil	2023-10-11	BT-2-0-1	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067072	Normal							
1030176	Soil	2023-10-11	BT-3-0-3	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067097	Normal							
1030176	Water	2023-10-06	BT-1-0-1	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054	Normal							
1030176	Water	2023-10-06	BT-1-1-3	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067063	Normal							
1030176	Water	2023-10-06	BT-2-0-1	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067073	Normal							
1030176	Water	2023-10-06	BT-2-1-3	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067082	Normal							
1030176	Water	2023-10-06	BT-2-1-3	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067082	Normal							
1030176	Water	2023-10-06	BT-3-1-1	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067099	Normal							
1030176	Water	2023-10-06	BT-3-3-3	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067104	Normal							
1030176	Water	2023-10-06	BT-3-5-2	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067106	Normal							
1030176	Water	2023-10-06	BT-3-5-3	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067107	Normal							
1030176	Water	2023-10-06	BT-4-1-3	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067120	Normal							
1030176	Water	2023-10-06	BT-4-3-2	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067122	Normal							
1030176	Water	2023-10-10	BT-1-1-2	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067062	Normal							
1030176	Water	2023-10-10	BT-1-5-3	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067069	Normal							
1036504	Water	2023-10-30	B1-2	16/10/2023	PFAS surrogates	(13C4-PFHpa) Surrogate		38	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044709	Normal							
1036504	Water	2023-10-30	B1-4	16/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044715	Normal							
1036504	Water	2023-10-30	B1-6	16/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044742	Normal							
1036504	Water	2023-10-30	B1-6	16/10/2023	PFAS surrogates	13C6-PFDA (surr.)		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044742	Normal							
1036504	Soil	2023-10-30	B1-6	16/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044740	Normal							
1036504	Water	2023-10-30	B2-1	16/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044718	Normal							
1036504	Soil	2023-10-30	B2-1	16/10/2023	PFAS surrogates	13C5-PFNA (surr.)		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044716	Normal							
1036504	Soil	2023-10-30	B2-2	16/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044719	Normal							
1036504	Water	2023-10-30	B2-3	16/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044724	Normal							
1036504	Water	2023-10-30	B2-4	16/10/2023	PFAS surrogates	13C8-PFOA		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044727	Normal							
1036504	Water	2023-10-30	B2-6	17/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044747	Normal							
1036504	Soil	2023-10-30	B2-6	17/10/2023	PFAS surrogates	13C6-PFDA (surr.)		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044745	Normal							
1036504	Soil	2023-10-30	B2-6	17/10/2023	PFOS	13C8 PFOS		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044745	Normal							
1036504	Soil	2023-10-30	B2-6	17/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044745	Normal							
1036504	Soil	2023-10-26	B3-2	16/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044732	Normal							
1036504	Water	2023-10-30	B3-3	16/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044736	Normal							
1036504	Water	2023-10-30	B3-3	16/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044736	Normal							
1036504	Soil	2023-10-26	B3-3	16/10/2023	PFAS surrogates	13C6-PFDA (surr.)		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044735	Normal							
1036504	Soil	2023-10-30	B3-4	16/10/2023	PFAS surrogates	13C8-PFOA		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044737	Normal							
1036504	Soil	2023-10-26	B3-4	16/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044738	Normal							
1036504	Soil	2023-10-26	B3-4	16/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		68	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044738	Normal							
1036504	Soil	2023-10-30	B3-6	17/1															

Surrogates															Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name														
1036893	Water	2023-11-14	B1-1-POST_DAY_10	19/10/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate									68	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047568	Normal
1036893	Water	2023-11-14	B1-3-POST_DAY_10	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)									68	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047584	Normal
1036893	Water	2023-11-14	B1-3-POST_DAY_7	19/10/2023	PFAS surrogates	13C8-PFOA									68	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047581	Normal
1036893	Water	2023-11-14	B2-3-POST_DAY_10	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)									68	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047619	Normal
1036893	Water	2023-11-14	B2-3-POST_DAY_7	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)									68	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047616	Normal
1036504	Soil	2023-10-26	B1-3	16/10/2023	PFAS surrogates	13C6-PFDA (surr.)									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044711	Normal
1036504	Water	2023-10-30	B1-3	16/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044712	Normal
1030176	Soil	2023-10-06	BT-1-0-2	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067055	Normal
1030176	Soil	2023-10-06	BT-1-0-2	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067055	Normal
1030176	Soil	2023-10-11	BT-2-0-3	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067078	Normal
1030176	Water	2023-10-06	BT-1-1-3	28/09/2023	PFAS surrogates	13C8-PFOA									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067063	Normal
1030176	Water	2023-10-06	BT-2-0-3	28/09/2023		13C8 PFOS									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067079	Normal
1030176	Water	2023-10-06	BT-2-3-2	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067084	Normal
1030176	Water	2023-10-06	BT-2-3-3	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067085	Normal
1030176	Water	2023-10-06	BT-2-5-2	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067087	Normal
1030176	Water	2023-10-06	BT-2-5-2	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067087	Normal
1030176	Water	2023-10-06	BT-3-1-2	28/09/2023		13C8 PFOS									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067100	Normal
1030176	Water	2023-10-06	BT-3-3-3	28/09/2023	PFAS surrogates	13C8-PFOA									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067104	Normal
1030176	Water	2023-10-06	BT-3-5-3	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067107	Normal
1030176	Water	2023-10-06	BT-4-1-2	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067119	Normal
1030176	Water	2023-10-06	BT-4-3-1	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067121	Normal
1030176	Water	2023-10-06	BT-4-3-1	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067121	Normal
1030176	Water	2023-10-10	BT-1-1-2	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067062	Normal
1036504	Soil	2023-10-30	B1-3	16/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044710	Normal
1036504	Soil	2023-10-26	B1-6	16/10/2023	PFAS surrogates	13C6-PFDA (surr.)									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044741	Normal
1036504	Soil	2023-10-26	B2-1	16/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044717	Normal
1036504	Soil	2023-10-26	B2-2	16/10/2023	PFAS surrogates	13C6-PFDA (surr.)									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044720	Normal
1036504	Soil	2023-10-30	B2-3	16/10/2023	PFAS surrogates	13C8-FOSA (surr.)									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044722	Normal
1036504	Water	2023-10-30	B2-4	16/10/2023		Extracted ISTD 1802 PFHxS									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044727	Normal
1036504	Water	2023-10-30	B2-6	17/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044747	Normal
1036504	Soil	2023-10-26	B2-6	17/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044746	Normal
1036504	Water	2023-10-30	B2-6	17/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044747	Normal
1036504	Soil	2023-10-30	B2-6	17/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044745	Normal
1036504	Soil	2023-10-26	B3-1	16/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044729	Normal
1036504	Soil	2023-10-26	B3-2	16/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044732	Normal
1036504	Water	2023-10-30	B3-2	16/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044733	Normal
1036504	Water	2023-10-30	B3-2	16/10/2023	PFAS surrogates	13C5-PFHxA (surr.)									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044733	Normal
1036504	Water	2023-10-30	B3-2	16/10/2023	PFAS surrogates	13C8-PFOA									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044733	Normal
1036504	Soil	2023-10-30	B3-4	16/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044737	Normal
1036504	Water	2023-10-30	B3-4	16/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate									69	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044739	Normal
1036504	Soil	2023-10-30	QC01	17/10/2023																

Surrogates													Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1036504	Soil	2023-10-26	B1-2	16/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)							65	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044708	Normal
1036504	Water	2023-10-30	B1-2	16/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)							154	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044709	Normal
1036504	Soil	2023-10-26	B1-2	16/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)							57	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044708	Normal
1036504	Water	2023-10-30	B1-2	16/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)							173	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044709	Normal
1036504	Soil	2023-10-26	B1-2	16/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)							67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044708	Normal
1036504	Soil	2023-10-30	B1-2	16/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)							59	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044707	Normal
1036504	Water	2023-10-30	B1-2	16/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)							63	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044709	Normal
1036504	Soil	2023-10-26	B1-2	16/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)							64	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044708	Normal
1036504	Water	2023-10-30	B1-2	16/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)							67	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044709	Normal
1026894	Soil	2023-09-20	S008	15/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)							131	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039316	Normal
1026894	Water	2023-09-20	W004	15/09/2023	PFAS surrogates	13C8-FOSA (surr.)							131	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039306	Normal
1026894	Water	2023-09-20	W006	15/09/2023	PFAS surrogates	13C8-FOSA (surr.)							131	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039308	Normal
1030176	Soil	2023-10-06	BT-2-0-3	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)							131	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067077	Normal
1030176	Soil	2023-10-11	BT-4-0-2	28/09/2023		Extracted ISTD 1802 PFHxS							131	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067113	Normal
1030176	Water	2023-10-06	BT-3-0-2	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate							131	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067095	Normal
1030176	Water	2023-10-06	BT-4-3-3	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)							131	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067123	Normal
1030176	Water	2023-10-06	BT-4-5-1	28/09/2023		13C8 PFOS							131	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067124	Normal
1026894	Water	2023-09-20	W009	15/09/2023	PFAS surrogates	13C5-PFNA (surr.)							131	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039311	Normal
1036893	Soil	2023-11-02	B1-2-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)							131	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047570	Normal
1036893	Soil	2023-11-02	B1-3-POST	19/10/2023	PFAS surrogates	13C2-10-2 FTSA (surr.)							131	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047573	Normal
1036893	Soil	2023-11-02	B1-4-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate							131	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047586	Normal
1036893	Soil	2023-11-02	B2-3-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)							131	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047608	Normal
1036893	Soil	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate							131	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047621	Normal
1036893	Soil	2023-11-06	B1-3-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)							131	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047572	Normal
1036893	Soil	2023-11-06	B1-4-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)							131	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047585	Normal
1036893	Water	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	13C2-10-2 FTSA (surr.)							131	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047622	Normal
1036893	Water	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	13C2-10-2 FTSA (surr.)							131	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047625	Normal
1036893	Water	2023-11-02	B3-4-POST	19/10/2023	PFAS surrogates	13C8-PFOA							131	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047657	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_2	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate							131	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047611	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_4	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)							131	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047632	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_4	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate							131	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047632	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_3	19/10/2023	PFAS surrogates	13C8-PFOA							131	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047647	Normal
1036893	Water	2023-11-10	B1-3-POST_DAY_6	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)							131	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047580	Normal
1036893	Water	2023-11-10	B3-1-POST_DAY_6	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)							131	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047634	Normal
1036893	Water	2023-11-13	B1-1-POST_DAY_8	19/10/2023	PFAS surrogates	13C2-10-2 FTSA (surr.)							131	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047566	Normal
1030176	Water	2023-10-06	BT-2-5-3	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)							132	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067088	Normal
1036504	Soil	2023-10-26	B2-1	16/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate							132	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044717	Normal
1036504	Water	2023-10-30	B3-1	16/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)							132	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044730	Normal
1036504	Soil	2023-10-26	B3-6	17/10/2023	PFAS surrogates	13C5-PFNA (surr.)							132	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044751	Normal
1036504	Water	2023-10-30	B3-6	17/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)							132	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044752	Normal
1026894	Water	2023-09-20	W001	15/09/2023	PFAS surrogates	13C2-PFDaDA (surr.)							132	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039303	Normal
1030176	Water	2023-10-06	BT-2-0-2	28/09/2023	PFAS surrogates	13C5-PFHxX (surr.)							132	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067076	Normal
1030176	Water	2023-10-06	BT-2-1-1	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate							132	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067080	Normal
1030176	Water	2023-10-06	BT-4-3-1	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate							132	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067121	Normal
1030176	Water	2023-10-06	BT-4-3-3	28/09/2023		13C8 PFOS							132	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067123	Normal
1030176	Water	2023-10-10	BT-1-5-2	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate							132	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068	Normal
1026894	Water	2023-09-20	W002	15/09/2023	PFAS surrogates	13C5-PFNA (surr.)							132	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039304	Normal
1026894	Water	2023-09-20	W003	15/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate							132	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039305	Normal
1026894	Water	2023-09-20	W009	15/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)							132	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039311	Normal
1026894	Water	2023-09-20	W009	15/09/2023		13C8 PFOS							132	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039311	Normal
1036893	Soil	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)							132	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047605	Normal
1036893	Soil	2023-11-02	B2-3-POST	19/10/2023	PFAS surrogates	13C8-PFOA							132	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047608	Normal
1036893	Soil	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)							132	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047621	Normal
1036893	Soil	2023-11-02	B3-4-POST	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate							132	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047656	Normal
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023		13C8 PFOS							132	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047569	Normal
1036893	Soil	2023-11-06	B1-3-POST	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate							132	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047572	Normal
1036893	Water	2023-11-02	B1-5-POST	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate							132	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047590	Normal
1036893	Water	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate							132	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047593	Normal
1036893	Water	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)							132	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047622	Normal
1036893	Water	2023-11-02	B3-1-POST	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate							132	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047628	Normal
1036893	Water	2023-11-02	B3-1-POST	19/10/2023	PFAS surrogates	13C5-PFHxX (surr.)							132	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047628	Normal
1036893	Water	2023-11-02	B3-2-POST	19/10/2023		13C8 PFOS							132	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047641	Normal
1036893	Water	2023-11-02	QC21	19/10/2023		13C8 PFOS							132	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047662	Field_D
1036893	Water	2023-11-09	B1-1-POST_DAY_3	19/10/2023	PFAS surrogates	13C8-PFOA							132	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047561	Normal
1036893	Water	2023-11-09	B1-1-POST_DAY_4	19/10/2023	PFAS surrogates	13C8-PFOA							132	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047562	Normal
1036893	Water	2023-11-09	B1-3-POST_DAY_4	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate							132	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047578	Normal
1036893	Water	20																

Surrogates													Lab Sample ID	Sample Type
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name				
1036893	Water	2023-11-09	B1-3-POST_DAY_4	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		133	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047578	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_4	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		133	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047597	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_2	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		133	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047611	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_3	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		133	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047631	Normal
1036893	Water	2023-11-10	B1-3-POST_DAY_6	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		133	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047580	Normal
1036893	Water	2023-11-14	B1-3-POST_DAY_10	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		133	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047584	Normal
1030176	Water	2023-10-06	BT-1-3-2	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		134	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067065	Normal
1030176	Soil	2023-10-11	BT-3-0-1	28/09/2023		Extracted ISTD 1802 PFHxS		134	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067091	Normal
1030176	Water	2023-10-06	BT-1-0-3	28/09/2023	PFAS surrogates	(13C4-PFHpa) Surrogate		134	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067060	Normal
1030176	Water	2023-10-06	BT-1-1-1	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		134	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067061	Normal
1030176	Water	2023-10-06	BT-3-3-2	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		134	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067103	Normal
1030176	Water	2023-10-06	BT-3-5-1	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)		134	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067105	Normal
1030176	Water	2023-10-06	BT-3-5-1	28/09/2023		Extracted ISTD 1802 PFHxS		134	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067105	Normal
1030176	Water	2023-10-06	BT-4-0-3	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		134	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067117	Normal
1030176	Water	2023-10-06	BT-4-3-3	28/09/2023	PFAS surrogates	13C8-PFOA		134	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067123	Normal
1036504	Soil	2023-10-30	B1-4	16/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		134	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044713	Normal
1036504	Soil	2023-10-26	B3-1	16/10/2023	PFAS surrogates	13C5-PFNA (surr.)		134	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044729	Normal
1036504	Soil	2023-10-26	B3-4	16/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		134	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044738	Normal
1036893	Soil	2023-11-02	B1-3-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		134	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047573	Normal
1036893	Soil	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		134	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047573	Normal
1036893	Soil	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		134	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047605	Normal
1036893	Soil	2023-11-02	B3-4-POST	19/10/2023	PFAS surrogates	13C8-PFOA		134	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047656	Normal
1036893	Soil	2023-11-06	B3-1-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		134	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047626	Normal
1036893	Water	2023-11-02	B3-3-POST	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		134	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047644	Normal
1036893	Water	2023-11-02	B3-4-POST	19/10/2023		13C8 PFOS		134	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047657	Normal
1036893	Water	2023-11-02	QC21	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		134	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047662	Field_D
1036893	Water	2023-11-09	B1-3-POST_DAY_4	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		134	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047578	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_1	19/10/2023	PFAS surrogates	13C8-PFOA		134	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047594	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_2	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		134	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047595	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_2	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		134	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047630	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_1	19/10/2023		Extracted ISTD 1802 PFHxS		134	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047645	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_2	19/10/2023		Extracted ISTD 1802 PFHxS		134	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047646	Normal
1036893	Water	2023-11-10	B2-1-POST_DAY_5	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		134	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047598	Normal
1036893	Water	2023-11-13	B2-1-POST_DAY_8	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		134	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047601	Normal
1036893	Water	2023-11-14	B1-3-POST_DAY_10	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		134	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047584	Normal
1036893	Water	2023-11-14	B3-1-POST_DAY_7	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		134	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047635	Normal
1030176	Soil	2023-10-11	BT-1-0-1	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		135	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067053	Normal
1036504	Soil	2023-10-30	B1-1	16/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		135	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044704	Normal
1030176	Water	2023-10-06	BT-3-0-3	28/09/2023		13C8 PFOS		135	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067098	Normal
1030176	Water	2023-10-06	BT-4-0-3	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)		135	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067117	Normal
1030176	Water	2023-10-06	BT-4-5-1	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		135	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067124	Normal
1030176	Water	2023-10-10	BT-1-3-3	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		135	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067066	Normal
1036504	Soil	2023-10-26	B2-1	16/10/2023	PFAS surrogates	13C5-PFNA (surr.)		135	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044717	Normal
1036504	Soil	2023-10-30	B3-2	16/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		135	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044731	Normal
1026894	Water	2023-09-20	W009	15/09/2023	PFAS surrogates	13C8-PFOA		135	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0039311	Normal
1036893	Soil	2023-11-02	B1-3-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		135	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047573	Normal
1036893	Soil	2023-11-02	B1-3-POST	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		135	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047573	Normal
1036893	Water	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		135	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047641	Normal
1036893	Water	2023-11-09	B1-1-POST_DAY_4	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		135	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047562	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_2	19/10/2023	PFAS surrogates	13C8-PFOA		135	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047611	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_4	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		135	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047613	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_4	19/10/2023	PFAS surrogates	13C8-PFOA		135	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047613	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_3	19/10/2023	PFAS surrogates	(13C4-PFHpa) Surrogate		135	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047647	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_4	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		135	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047648	Normal
1036893	Water	2023-11-10	B3-3-POST_DAY_5	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		135	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047649	Normal
1036893	Water	2023-11-13	B1-1-POST_DAY_8	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		135	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047566	Normal
1036504	Soil	2023-10-26	B2-1	16/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		136	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044717	Normal
1026894	Water	2023-09-20	W002	15/09/2023		13C8 PFOS		136	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0039304	Normal
1030176	Soil	2023-10-06	BT-4-0-2	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		136	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067112	Normal
1030176	Soil	2023-10-11	BT-4-0-2	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		136	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067113	Normal
1030176	Water	2023-10-06	BT-1-0-3	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		136	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067060	Normal
1030176	Water	2023-10-06	BT-1-1-1	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		136	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067061	Normal
1030176	Water	2023-10-06	BT-3-0-3	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		136	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067098	Normal
1030176	Water	2023-10-06	BT-3-5-2	28/09/2023	PFAS surrogates	(13C4-PFHpa) Surrogate		136	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067106	Normal
1030176	Water	2023-10-06	BT-4-5-2	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		136	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067125	Normal
1026894	Water	2023-09-20	W006	15/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		136	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0039308	Normal
1036893	Soil	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		136	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047605	Normal
1036893	Soil	2023-11-02	B2-3-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		136	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047608	Normal
1036893	Soil	2023-11-02	B3-5-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		136	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047659	Normal
1036893	Water	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		136	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047625	Normal
1036893	Water	2023-11-02	QC21	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		136	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047662	Field_D
1036893	Water	2023-11-09	B1-3-POST_DAY_4	19/10/2023	PFAS surrogates	1								

Surrogates

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1036893	Water	2023-11-13	B1-1-POST_DAY_8	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		137	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047566	Normal
1036893	Water	2023-11-13	B1-3-POST_DAY_9	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		137	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047583	Normal
1030176	Water	2023-10-06	BT-4-0-1	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		138	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067111	Normal
1030176	Water	2023-10-06	BT-2-0-2	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		138	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067076	Normal
1030176	Water	2023-10-06	BT-2-3-3	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		138	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067085	Normal
1036504	Soil	2023-10-26	B3-6	17/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		138	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044751	Normal
1036893	Soil	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		138	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047605	Normal
1036893	Soil	2023-11-02	B2-3-POST	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		138	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047608	Normal
1036893	Soil	2023-11-02	B3-5-POST	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		138	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047659	Normal
1036893	Water	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	13C8-PFOA		138	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047641	Normal
1036893	Water	2023-11-02	B3-4-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		138	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047657	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_2	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		138	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047611	Normal
1036893	Water	2023-11-10	B1-3-POST_DAY_6	19/10/2023	PFAS surrogates	13C8-PFOA		138	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047580	Normal
1030176	Soil	2023-10-11	BT-1-0-2	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		139	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067056	Normal
1030176	Soil	2023-10-11	BT-1-0-3	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		139	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067059	Normal
1030176	Water	2023-10-06	BT-1-1-3	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		139	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067063	Normal
1030176	Water	2023-10-06	BT-2-3-3	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		139	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067085	Normal
1030176	Water	2023-10-06	BT-3-0-3	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		139	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067098	Normal
1030176	Water	2023-10-06	BT-3-0-3	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)		139	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067098	Normal
1030176	Water	2023-10-06	BT-4-3-3	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		139	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067123	Normal
1030176	Water	2023-10-10	BT-1-1-2	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		139	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067062	Normal
1036893	Soil	2023-11-02	B2-2-POST	19/10/2023		Extracted ISTD 1802 PFHxS		139	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047605	Normal
1036893	Water	2023-11-02	B1-5-POST	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		139	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047590	Normal
1036893	Water	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		139	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047622	Normal
1036893	Water	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		139	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047625	Normal

Surrogates												
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1036893	Water	2023-11-10	B1-3-POST_DAY_6	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	142	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047580	Normal
1036893	Water	2023-11-13	B1-3-POST_DAY_9	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	142	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047583	Normal
1036504	Soil	2023-10-30	B1-3	16/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	143	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044710	Normal
1036504	Water	2023-10-30	B1-3	16/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	143	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044712	Normal
1030176	Soil	2023-10-06	BT-2-0-2	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	143	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067074	Normal
1030176	Water	2023-10-06	BT-1-3-2	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)	143	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067065	Normal
1030176	Water	2023-10-06	BT-2-5-3	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	143	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067088	Normal
1030176	Water	2023-10-06	BT-3-0-3	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)	143	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067098	Normal
1030176	Water	2023-10-06	BT-3-0-3	28/09/2023	PFAS surrogates	13C8-PFOA	143	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067098	Normal
1030176	Water	2023-10-06	BT-3-0-3	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	143	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067098	Normal
1036504	Soil	2023-10-26	B2-1	16/10/2023		Extracted ISTD 1802 PFHxS	143	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044717	Normal
1026894	Water	2023-09-20	W006	15/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	143	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039308	Normal
1026894	Water	2023-09-20	W007	15/09/2023	PFAS surrogates	13C5-PFNA (surr.)	143	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039309	Normal
1036893	Soil	2023-11-02	B2-3-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)	143	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047608	Normal
1036893	Water	2023-11-02	B3-3-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	143	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047644	Normal
1036893	Water	2023-11-02	QC21	19/10/2023		Extracted ISTD 1802 PFHxS	143	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047662	Field_D
1036893	Water	2023-11-09	B2-3-POST_DAY_2	19/10/2023		Extracted ISTD 1802 PFHxS	143	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047611	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_4	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	143	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047613	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_4	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	143	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047613	Normal
1036893	Water	2023-11-13	B1-1-POST_DAY_8	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	143	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047566	Normal
1036893	Water	2023-11-14	B1-3-POST_DAY_10	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)	143	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047584	Normal
1036893	Water	2023-11-14	B3-3-POST_DAY_7	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	143	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047651	Normal
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	144	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067052	Normal
1030176	Soil	2023-10-06	BT-1-0-2	28/09/2023		13C8 PFOS	144	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067055	Normal
1030176	Soil	2023-10-06	BT-3-0-1	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	144	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067090	Normal
1030176	Water	2023-10-06	BT-3-3-1	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)	144	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067102	Normal
1030176	Water	2023-10-06	BT-3-3-1	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	144	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067102	Normal
1030176	Water	2023-10-06	BT-3-3-1	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	144	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067102	Normal
1030176	Water	2023-10-06	BT-4-3-3	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	144	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067123	Normal
1030176	Water	2023-10-10	BT-1-3-3	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	144	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067066	Normal
1026894	Water	2023-09-20	W006	15/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	144	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039308	Normal
1036893	Soil	2023-11-02	B2-3-POST	19/10/2023		Extracted ISTD 1802 PFHxS	144	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047608	Normal
1036893	Water	2023-11-02	B3-1-POST	19/10/2023	PFAS surrogates	(13C3-PFBs) Surrogate	144	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047628	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_2	19/10/2023	PFAS surrogates	13C8-PFOA	144	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047595	Normal
1036893	Water	2023-11-10	B2-1-POST_DAY_6	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	144	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047599	Normal
1036504	Soil	2023-10-26	B2-6	17/10/2023	PFAS surrogates	13C5-PFNA (surr.)	145	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044746	Normal
1036504	Soil	2023-10-30	B3-2	16/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	145	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044731	Normal
1026894	Water	2023-09-20	W003	15/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	145	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039305	Normal
1026894	Water	2023-09-20	W003	15/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)	145	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039305	Normal
1030176	Water	2023-10-06	BT-2-5-3	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	145	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067088	Normal
1030176	Water	2023-10-06	BT-2-5-3	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)	145	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067088	Normal
1030176	Water	2023-10-06	BT-3-0-3	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)	145	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067098	Normal
1030176	Water	2023-10-06	BT-3-5-1	28/09/2023	PFAS surrogates	13C8-PFOA	145	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067105	Normal
1026894	Water	2023-09-20	W005	15/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)	145	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039307	Normal
1026894	Water	2023-09-20	W008	15/09/2023		Extracted ISTD 1802 PFHxS	145	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310	Normal
1036893	Soil	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	145	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047605	Normal
1036893	Water	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)	145	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047622	Normal
1036893	Water	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)	145	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047641	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_3	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	145	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047612	Normal
1036504	Soil	2023-10-26	B2-1	16/10/2023	PFAS surrogates	(13C3-PFBs) Surrogate	146	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044717	Normal
1036504	Soil	2023-10-26	B2-6	17/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	146	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044746	Normal
1030176	Water	2023-10-06	BT-1-0-3	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	146	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067060	Normal
1030176	Water	2023-10-06	BT-3-0-3	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)	146	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067098	Normal
1030176	Water	2023-10-06	BT-3-0-3	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)	146	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067098	Normal
1030176	Water	2023-10-06	BT-3-0-3	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	146	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067098	Normal
1030176	Water	2023-10-06	BT-3-1-1	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	146	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067099	Normal
1036504	Soil	2023-10-30	B3-2	16/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	146	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044731	Normal
1026894	Water	2023-09-20	W001	15/09/2023		13C8 PFOS	146	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039303	Normal
1026894	Water	2023-09-20	W002	15/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	146	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039304	Normal
1036893	Water	2023-11-02	B2-3-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	146	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047609	Normal
1036893	Water	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	(13C3-PFBs) Surrogate	146	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047622	Normal
1036893	Water	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	146	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047625	Normal
1036893	Water	2023-11-09	B1-3-POST_DAY_1	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	146	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047575	Normal
1036893	Water	2023-11-09	B1-3-POST_DAY_4	19/10/2023		Extracted ISTD 1802 PFHxS	146	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047578	Normal
1036893	Water	2023-11-14	B1-3-POST_DAY_10	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	146	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047584	Normal
1036504	Soil	2023-10-30	B1-3	16/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	147	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044710	Normal
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	147	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067052	Normal
1030176	Water	2023-10-06	BT-4-0-3	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	147	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067117	Normal
1026894	Water	2023-09-20	W006	15/09/2023	PFAS surrogates	13C6-PFDA (surr.)	147	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039308	Normal
1036893	Soil	2023-11-02	B1-3-POST	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)	147	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047573	Normal
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	147	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047569	Normal
1036893	Water	2023-11-02	QC21	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)	147	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047662	Field_D
1036893	Water	2023-11-09	B2-3-POST_DAY_2	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	147	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047611	Normal
1036893	Water	2023-11-13	B1-1-POST_DAY_8	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	147	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047566	Normal
1030176	Soil	2023-10-06	BT-4-0-2	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	148	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067112	Normal
1030176	Soil	2023-10-11	BT-4-0-2									

Surrogates												Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name											
1036893	Water	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate						149	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047622	Normal
1026894	Water	2023-09-20	W001	15/09/2023	PFAS surrogates	13C5-PFNA (surr.)						150	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039303	Normal
1036893	Soil	2023-11-06	B1-3-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)						150	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047572	Normal
1036893	Water	2023-11-02	B3-1-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate						150	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047628	Normal
1036893	Water	2023-11-02	B3-4-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate						150	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047657	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_4	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)						150	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047613	Normal
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate						151	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067052	Normal
1030176	Water	2023-10-10	BT-1-3-3	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate						151	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067066	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_1	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)						151	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047645	Normal
1036893	Water	2023-11-10	B1-3-POST_DAY_5	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate						151	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047579	Normal
1036893	Water	2023-11-10	B2-3-POST_DAY_5	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate						151	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047614	Normal
1030176	Soil	2023-10-11	BT-1-0-1	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)						153	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067053	Normal
1030176	Water	2023-10-06	BT-3-3-3	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate						153	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067104	Normal
1036504	Soil	2023-10-26	B2-1	16/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate						153	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044717	Normal
1026894	Water	2023-09-20	W003	15/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)						153	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039305	Normal
1036893	Water	2023-11-02	QC21	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)						153	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047662	Field_D
1026894	Water	2023-09-20	W005	15/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)						154	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039307	Normal
1036893	Water	2023-11-02	B3-1-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate						154	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047628	Normal
1036893	Water	2023-11-02	QC21	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)						154	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047662	Field_D
1036893	Water	2023-11-09	B3-3-POST_DAY_4	19/10/2023	PFAS surrogates	13C8-PFOA						154	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047648	Normal
1030176	Water	2023-10-06	BT-1-3-2	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate						155	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067065	Normal
1030176	Water	2023-10-06	BT-2-0-3	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate						155	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067079	Normal
1036893	Soil	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)						155	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047605	Normal
1036893	Water	2023-11-10	B3-1-POST_DAY_5	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate						155	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047633	Normal
1036893	Water	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate						156	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047641	Normal
1030176	Water	2023-10-06	BT-3-0-3	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)						157	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067098	Normal
1036504	Soil	2023-10-30	B1-3	16/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)						157	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044710	Normal
1036893	Water	2023-11-14	B3-3-POST_DAY_7	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate						158	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047651	Normal
1030176	Soil	2023-10-06	BT-3-0-2	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate						159	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067093	Normal
1030176	Water	2023-10-06	BT-2-5-3	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)						161	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067088	Normal
1030176	Water	2023-10-06	BT-3-5-1	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)						163	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067105	Normal
1036504	Water	2023-10-30	B1-3	16/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)						163	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044712	Normal
1036504	Soil	2023-10-26	B3-4	16/10/2023	PFAS surrogates	13C5-PFNA (surr.)						163	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044738	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_4	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate						163	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047632	Normal
1036893	Water	2023-11-10	B3-1-POST_DAY_5	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate						163	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047633	Normal
1030176	Soil	2023-10-06	BT-2-0-3	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate						164	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067077	Normal
1030176	Water	2023-10-06	BT-1-3-2	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)						164	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067065	Normal
1036504	Soil	2023-10-30	B1-4	16/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate						164	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044713	Normal
1036893	Water	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate						164	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047593	Normal
1036504	Soil	2023-10-30	B1-1	16/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate						166	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044704	Normal
1030176	Water	2023-10-06	BT-2-5-3	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)						167	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067088	Normal
1036893	Water	2023-11-02	B2-3-POST	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)						167	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047609	Normal
1030176	Water	2023-10-06	BT-2-5-3	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)						168	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067088	Normal
1030176	Water	2023-10-10	BT-2-1-2	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)						168	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067081	Normal
1036504	Soil	2023-10-30	B3-1	16/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)						169	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044728	Normal
1036893	Water	2023-11-02	QC21	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)						169	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047662	Field_D
1030176	Soil	2023-10-06	BT-2-0-1	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)						171	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067071	Normal
1036504	Soil	2023-10-26	B2-1	16/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate						172	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044717	Normal
1036893	Water	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate						177	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047622	Normal
1036893	Water	2023-11-14	B1-3-POST_DAY_10	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate						178	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047584	Normal
1030176	Soil	2023-10-06	BT-3-0-3	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate						179	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067096	Normal
1036504	Soil	2023-10-30	B1-4	16/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate						179	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044713	Normal
1036504	Soil	2023-10-30	B1-6	16/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)						180	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044740	Normal
1036504	Soil	2023-10-30	QC01	17/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate						180	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044743	Field_D
1030176	Water	2023-10-10	BT-2-1-2	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)						181	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067081	Normal
1036893	Water	2023-11-02	QC21	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate						181	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047662	Field_D
1036504	Soil	2023-10-30	B1-4	16/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate						182	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044713	Normal
1030176	Soil	2023-10-06	BT-2-0-2	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate						183	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067074	Normal
1030176	Water	2023-10-06	BT-1-3-2	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate						183	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067065	Normal
1036893	Water	2023-11-14	B1-3-POST_DAY_10	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate						183	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047584	Normal
1036504	Soil	2023-10-26	B2-1	16/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate						186	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044717	Normal
1030176	Water	2023-10-06	BT-3-0-3	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate						187	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067098	Normal
1030176	Water	2023-10-06	BT-1-3-2	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)						188	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067065	Normal
1030176	Water	2023-10-06	BT-1-3-2	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)						189	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067065	Normal
1036504	Soil	2023-10-30	B1-1	16/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate						190	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044704	Normal
1030176	Water	2023-10-06	BT-4-3-2	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate						191	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067122	Normal

Surrogates

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1036504	Water	2023-10-30	B1-2	16/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044709	Normal
1036504	Soil	2023-10-26	B1-2	16/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		101	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044708	Normal
1036504	Soil	2023-10-30	B1-2	16/10/2023	PFAS surrogates	(13C4-PFHpa) Surrogate		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044707	Normal
1036504	Soil	2023-10-30	B1-1	16/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044704	Normal
1036504	Soil	2023-10-26	B1-2	16/10/2023	PFAS surrogates	(13C4-PFHpa) Surrogate		94	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044708	Normal
1036504	Soil	2023-10-26	B1-3	16/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044711	Normal
1036504	Soil	2023-10-30	B1-4	16/10/2023	PFAS surrogates	(13C4-PFHpa) Surrogate		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044713	Normal
1036504	Water	2023-10-30	B1-6	16/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044742	Normal
1030176	Soil	2023-10-11	BT-2-0-1	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067072	Normal
1030176	Soil	2023-10-11	BT-2-0-2	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067075	Normal
1030176	Soil	2023-10-11	BT-2-0-3	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067078	Normal
1030176	Soil	2023-10-11	BT-4-0-1	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067110	Normal
1030176	Soil	2023-10-11	BT-4-0-2	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067113	Normal
1030176	Soil	2023-10-11	BT-4-0-2	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067113	Normal
1030176	Soil	2023-10-11	BT-4-0-2	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067113	Normal
1030176	Soil	2023-10-11	BT-4-0-2	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067113	Normal
1030176	Soil	2023-10-11	BT-4-0-2	28/09/2023	PFAS surrogates	13C8-PFOA		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067113	Normal
1030176	Soil	2023-10-11	BT-4-0-2	28/09/2023	PFAS surrogates	13C8 PFOS		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067113	Normal
1030176	Water	2023-10-06	BT-1-1-3	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067063	Normal
1030176	Water	2023-10-06	BT-1-3-1	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067064	Normal
1030176	Water	2023-10-06	BT-3-0-2	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067095	Normal
1030176	Water	2023-10-06	BT-3-0-2	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067095	Normal
1030176	Water	2023-10-06	BT-3-1-1	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067099	Normal
1030176	Water	2023-10-06	BT-3-1-2	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067100	Normal
1030176	Water	2023-10-06	BT-3-1-3	28/09/2023	PFAS surrogates	13C8 PFOS		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067101	Normal
1030176	Water	2023-10-06	BT-4-1-2	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067119	Normal
1030176	Water	2023-10-06	BT-4-5-1	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067124	Normal
1036504	Water	2023-10-30	B1-6	16/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044742	Normal
1036504	Soil	2023-10-26	B2-2	16/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044720	Normal
1036504	Soil	2023-10-30	B2-2	16/10/2023	PFAS surrogates	13C8-FOSA (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044719	Normal
1036504	Water	2023-10-30	B2-3	16/10/2023	PFAS surrogates	13C6-PFDA (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044724	Normal
1036504	Water	2023-10-30	B2-3	16/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044724	Normal
1036504	Soil	2023-10-30	B2-3	16/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044722	Normal
1036504	Soil	2023-10-26	B3-1	16/10/2023	PFAS surrogates	13C8-FOSA (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044729	Normal
1036504	Water	2023-10-30	B3-4	16/10/2023	PFAS surrogates	(13C4-PFHpa) Surrogate		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044739	Normal
1036504	Soil	2023-10-30	B3-6	17/10/2023	PFAS surrogates	13C8-PFOA		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044750	Normal
1036504	Soil	2023-10-30	QC01	17/10/2023	PFAS surrogates	13C5-PFNA (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044744	Field_D
1036504	Soil	2023-10-30	QC01	17/10/2023		Extracted ISTD 1802 PFHxS		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044744	Field_D
1036504	Soil	2023-10-30	QC03	17/10/2023	PFAS surrogates	(13C4-PFHpa) Surrogate		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044749	Field_D
1036504	Soil	2023-10-30	QC03	17/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044749	Field_D
1026894	Soil	2023-09-20	S001	15/09/2023	PFAS surrogates	13C8-FOSA (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039313	Normal
1026894	Soil	2023-09-20	S006	15/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039315	Normal
1026894	Soil	2023-09-20	S008	15/09/2023	PFAS surrogates	13C5-PFHxA (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039316	Normal
1026894	Water	2023-09-20	W004	15/09/2023	PFAS surrogates	13C5-PFNA (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039306	Normal
1026894	Water	2023-09-20	W010	15/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039312	Normal
1036893	Soil	2023-11-02	B3-1-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047627	Normal
1036893	Soil	2023-11-02	B3-3-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047643	Normal
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogates		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047569	Normal
1036893	Soil	2023-11-06	B2-1-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047591	Normal
1036893	Soil	2023-11-06	B2-1-POST	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047591	Normal
1036893	Soil	2023-11-06	B3-1-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047626	Normal
1036893	Water	2023-11-02	B1-1-POST	19/10/2023		13C8 PFOS		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047558	Normal
1036893	Water	2023-11-02	B1-4-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047587	Normal
1036893	Water	2023-11-02	B1-5-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047590	Normal
1036893	Water	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047622	Normal
1036893	Water	2023-11-02	QC23	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047663	Field_D
1036893	Water	2023-11-09	B1-3-POST_DAY_1	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047575	Normal
1036893	Water	2023-11-09	B1-3-POST_DAY_4	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047578	Normal
1036893	Water	2023-11-10	B1-3-POST_DAY_5	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047579	Normal
1036893	Water	2023-11-10	B2-1-POST_DAY_5	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047598	Normal
1036893	Water	2023-11-10	B3-1-POST_DAY_5	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047633	Normal
1036893	Water	2023-11-10	B3-3-POST_DAY_5	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047649	Normal
1036893	Water	2023-11-14	B1-1-POST_DAY_10	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047568	Normal
1036893	Water	2023-11-14	B1-3-POST_DAY_7	19/10/2023		Extracted ISTD 1802 PFHxS		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047581	Normal
1036893	Water	2023-11-14	B2-1-POST_DAY_10	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047603	Normal
1036893	Water	2023-11-14	B2-1-POST_DAY_10	19/10/2023	PFAS surrogates	13C8-PFOA		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047603	Normal
1036893	Water	2023-11-14	B2-1-POST_DAY_10	19/10/2023		13C8 PFOS		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047603	Normal
1036893	Water	2023-11-14	B3-1-POST_DAY_7	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047635	Normal
1036893	Water	2023-11-14	B3-1-POST_DAY_7	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047635	Normal
1036893	Water	2023-11-14	B3-3-POST_DAY_7	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		70	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047651	Normal
1036504	Soil	2023-10-30	B1-1	16/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		71	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044704	Normal
1036504	Soil	2023-10-26	B1-1	16/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		71	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044705	Normal
1036504	Water	2023-10-30	B1-3	16/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		71	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044712	Normal
1036504	Soil	2023-10-30	B1-4	16/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		71	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044713	Normal
1036504	Soil	2023-10-30	B1-4	16/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		71	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044713	Normal
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	PFAS surrogates	13C8-PFOA		71	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067052	Normal
1030176	Soil	2023-10-11	BT-1-0-3	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)		71	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067059	Normal
1030176	Soil	2023-10-11	BT-2-0-2	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)		71	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B2	

Surrogates												
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1030176	Water	2023-10-10	BT-1-5-2	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068	Normal
1036504	Soil	2023-10-30	B1-4	16/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044713	Normal
1036504	Water	2023-10-30	B2-1	16/10/2023	PFAS surrogates	13C8-PFOA	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044718	Normal
1036504	Soil	2023-10-30	B2-1	16/10/2023		Extracted ISTD 1802 PFHxS	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044716	Normal
1036504	Water	2023-10-30	B2-2	16/10/2023	PFAS surrogates	(13C3-PFBs) Surrogate	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044721	Normal
1036504	Soil	2023-10-30	B2-2	16/10/2023		Extracted ISTD 1802 PFHxS	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044719	Normal
1036504	Water	2023-10-30	B2-3	16/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044724	Normal
1036504	Soil	2023-10-30	B2-4	16/10/2023	PFAS surrogates	13C5-PFNA (surr.)	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044725	Normal
1036504	Water	2023-10-30	B3-1	16/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044730	Normal
1036504	Soil	2023-10-26	B3-1	16/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044729	Normal
1036504	Soil	2023-10-26	B3-3	16/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044735	Normal
1036504	Soil	2023-10-30	B3-4	16/10/2023	PFAS surrogates	(13C3-PFBs) Surrogate	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044737	Normal
1036504	Soil	2023-10-30	B3-4	16/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044737	Normal
1036504	Water	2023-10-30	B3-6	17/10/2023	PFAS surrogates	13C6-PFDA (surr.)	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044752	Normal
1036504	Soil	2023-10-30	QC01	17/10/2023	PFAS surrogates	13C8-FOSA (surr.)	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044743	Field_D
1036504	Soil	2023-10-30	QC03	17/10/2023	PFAS surrogates	(13C3-PFBs) Surrogate	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044749	Field_D
1036504	Soil	2023-10-30	QC03	17/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044749	Field_D
1036504	Soil	2023-10-30	QC05	17/10/2023	PFAS surrogates	(13C3-PFBs) Surrogate	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044753	Field_D
1026894	Soil	2023-09-20	S001	15/09/2023	PFAS surrogates	13C5-PFNA (surr.)	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039313	Normal
1026894	Soil	2023-09-20	S006	15/09/2023	PFAS surrogates	13C8-PFOA	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039315	Normal
1026894	Soil	2023-09-20	S006	15/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039315	Normal
1028097	Soil	2023-09-27	W001	15/09/2023	PFAS surrogates	13C8-PFOA	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049211	Normal
1028097	Soil	2023-09-27	W002	15/09/2023	PFAS surrogates	(13C3-PFBs) Surrogate	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049212	Normal
1028097	Soil	2023-09-27	W003	15/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049213	Normal
1026894	Water	2023-09-20	W007	15/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039309	Normal
1036893	Soil	2023-11-02	B3-3-POST	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047643	Normal
1036893	Soil	2023-11-06	B2-2-POST	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047604	Normal
1036893	Soil	2023-11-06	B2-2-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047604	Normal
1036893	Soil	2023-11-06	B2-3-POST	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047607	Normal
1036893	Soil	2023-11-06	B2-5-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047623	Normal
1036893	Soil	2023-11-06	B3-2-POST	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047639	Normal
1036893	Water	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047593	Normal
1036893	Water	2023-11-02	B3-1-POST	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047628	Normal
1036893	Water	2023-11-09	B1-1-POST_DAY_1	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047559	Normal
1036893	Water	2023-11-09	B1-1-POST_DAY_2	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047560	Normal
1036893	Water	2023-11-09	B1-3-POST_DAY_3	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047577	Normal
1036893	Water	2023-11-09	B1-3-POST_DAY_4	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047578	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_1	19/10/2023	PFAS surrogates	13C2-PFDaDA (surr.)	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047594	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_3	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047596	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_4	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047597	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_3	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047631	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_3	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047647	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_3	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047647	Normal
1036893	Water	2023-11-10	B1-3-POST_DAY_5	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047579	Normal
1036893	Water	2023-11-10	B3-1-POST_DAY_6	19/10/2023		13C8 PFOS	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047634	Normal
1036893	Water	2023-11-10	B3-3-POST_DAY_6	19/10/2023	PFAS surrogates	(13C3-PFBs) Surrogate	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047650	Normal
1036893	Water	2023-11-13	B3-1-POST_DAY_8	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047636	Normal
1036893	Water	2023-11-13	B3-3-POST_DAY_8	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047652	Normal
1036893	Water	2023-11-13	B3-3-POST_DAY_9	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047653	Normal
1036893	Water	2023-11-14	B2-1-POST_DAY_7	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047600	Normal
1036893	Water	2023-11-14	B2-3-POST_DAY_10	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047619	Normal
1036504	Water	2023-10-30	B1-1	16/10/2023	PFAS surrogates	13C5-PFNA (surr.)	72	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044706	Normal
1036504	Soil	2023-10-26	B1-2	16/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	88	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044708	Normal
1036504	Soil	2023-10-26	B1-2	16/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	81	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044708	Normal
1036504	Soil	2023-10-30	B1-4	16/10/2023	PFAS surrogates	13C8-PFOA	72	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044713	Normal
1036504	Soil	2023-10-26	B1-6	16/10/2023	PFAS surrogates	13C2-PFDaDA (surr.)	72	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044741	Normal
1036504	Soil	2023-10-30	B1-6	16/10/2023	PFAS surrogates	13C5-PFHxA (surr.)	72	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044740	Normal
1036504	Water	2023-10-30	B1-6	16/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	72	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044742	Normal
1036504	Water	2023-10-30	B1-6	16/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	72	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044742	Normal
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)	72	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067052	Normal
1030176	Soil	2023-10-06	BT-1-0-2	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)	72	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067055	Normal
1030176	Soil	2023-10-06	BT-2-0-2	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	72	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067074	Normal
1030176	Soil	2023-10-06	BT-4-0-2	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	72	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067112	Normal
1030176	Soil	2023-10-11	BT-2-0-2	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	72	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067075	Normal
1030176	Water	2023-10-06	BT-1-0-3	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	72	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067060	Normal
1030176	Water	2023-10-06	BT-1-1-3	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	72	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067063	Normal
1030176	Water	2023-10-06	BT-2-3-2	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	72	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067084	Normal
1030176	Water	2023-10-06	BT-2-5-1	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	72	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067086	Normal
1030176	Water	2023-10-06	BT-2-5-1	28/09/2023	PFAS surrogates	13C8-PFOA	72	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067086	Normal
1030176	Water	2023-10-06	BT-2-5-2	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	72	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067087	Normal
1030176	Water	2023-10-06	BT-2-5-2	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	72	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067087	Normal
1030176	Water	2023-10-06	BT-2-5-3	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	72	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067088	Normal
1030176	Water	2023-10-06	BT-2-5-3	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	72	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067088	Normal
1030176	Water	2023-10-06	BT-3-5-1	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	72	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067105	Normal
1030176	Water	2023-10-06	BT-4-5-1	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	72	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067124	Normal
1030176	Water	2023-10-06	BT-4-5-2	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)	72	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067125	Normal
1030176	Water	2023-10-06	BT-4-5-2	28/09/2023	PFAS surrogates	13C8-PFOA	72	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067125	Normal
1030176	Water	2023-10-10	BT-1-1-2	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr						

Surrogates

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1036504	Water	2023-10-30	B3-6	17/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044752	Normal
1036504	Soil	2023-10-30	QC01	17/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044744	Field_D
1036504	Soil	2023-10-30	QC01	17/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044743	Field_D
1036504	Soil	2023-10-30	QC01	17/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044743	Field_D
1026894	Soil	2023-09-20	S005	15/09/2023		Extracted ISTD 1802 PFHxS		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039314	Normal
1026894	Soil	2023-09-20	S006	15/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039315	Normal
1026894	Soil	2023-09-20	S006	15/09/2023	PFAS surrogates	13C5-PFHxA (surr.)		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039315	Normal
1026894	Soil	2023-09-20	S008	15/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039316	Normal
1026894	Water	2023-09-20	W001	15/09/2023	PFAS surrogates	13C8-PFOA		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039303	Normal
1026894	Water	2023-09-20	W002	15/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039304	Normal
1028097	Soil	2023-09-27	W003	15/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049213	Normal
1026894	Water	2023-09-20	W004	15/09/2023		Extracted ISTD 1802 PFHxS		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039306	Normal
1026894	Water	2023-09-20	W010	15/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039312	Normal
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047640	Normal
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047640	Normal
1036893	Soil	2023-11-06	B1-3-POST	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047572	Normal
1036893	Soil	2023-11-06	B1-4-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047585	Normal
1036893	Soil	2023-11-06	B2-1-POST	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047591	Normal
1036893	Soil	2023-11-06	B2-3-POST	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047607	Normal
1036893	Soil	2023-11-06	B3-2-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047639	Normal
1036893	Soil	2023-11-06	B3-2-POST	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047639	Normal
1036893	Soil	2023-11-06	B3-5-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047658	Normal
1036893	Water	2023-11-02	B1-2-POST	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047571	Normal
1036893	Water	2023-11-02	B1-3-POST	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047574	Normal
1036893	Water	2023-11-02	QC19	19/10/2023	PFAS surrogates	13C8-PFOA		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047661	Field_D
1036893	Water	2023-11-09	B1-1-POST_DAY_1	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047559	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_2	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047611	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_3	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047631	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_4	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047648	Normal
1036893	Water	2023-11-10	B1-1-POST_DAY_6	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047564	Normal
1036893	Water	2023-11-10	B2-1-POST_DAY_6	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047599	Normal
1036893	Water	2023-11-10	B2-3-POST_DAY_5	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047614	Normal
1036893	Water	2023-11-10	B2-3-POST_DAY_5	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047614	Normal
1036893	Water	2023-11-10	B3-1-POST_DAY_6	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047634	Normal
1036893	Water	2023-11-10	B3-1-POST_DAY_6	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047634	Normal
1036893	Water	2023-11-10	B3-3-POST_DAY_6	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047650	Normal
1036893	Water	2023-11-13	B1-3-POST_DAY_9	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047583	Normal
1036893	Water	2023-11-13	B1-3-POST_DAY_9	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047583	Normal
1036893	Water	2023-11-13	B3-1-POST_DAY_8	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047636	Normal
1036893	Water	2023-11-14	B2-1-POST_DAY_10	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047603	Normal
1036893	Water	2023-11-14	B2-1-POST_DAY_7	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047600	Normal
1036893	Water	2023-11-14	B2-3-POST_DAY_7	19/10/2023		Extracted ISTD 1802 PFHxS		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047616	Normal
1036893	Water	2023-11-14	B3-1-POST_DAY_7	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047635	Normal
1036893	Water	2023-11-14	B3-1-POST_DAY_7	19/10/2023		13C8 PFOS		72	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047635	Normal
1036504	Water	2023-10-30	B1-1	16/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044706	Normal
1036504	Soil	2023-10-30	B1-1	16/10/2023	PFAS surrogates	13C8-FOSA (surr.)		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044704	Normal
1036504	Water	2023-10-30	B1-1	16/10/2023	PFAS surrogates	13C8-PFOA		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044706	Normal
1036504	Water	2023-10-30	B1-3	16/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044712	Normal
1030176	NA	2023-10-04	BT-4	28/09/2023	Surrogate	4-Bromofluorobenzene		73	50	150 USEPA SW846 8260	B23-Se0067127	Normal
1030176	Soil	2023-10-06	BT-1-0-2	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067055	Normal
1030176	Soil	2023-10-11	BT-1-0-3	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067059	Normal
1030176	Soil	2023-10-11	BT-2-0-3	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067078	Normal
1030176	Water	2023-10-06	BT-2-0-3	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067079	Normal
1030176	Water	2023-10-06	BT-2-3-1	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067083	Normal
1030176	Water	2023-10-06	BT-3-1-1	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067099	Normal
1030176	Water	2023-10-06	BT-3-1-1	28/09/2023	PFAS surrogates	13C8-PFOA		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067099	Normal
1030176	Water	2023-10-06	BT-3-3-3	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067104	Normal
1030176	Water	2023-10-06	BT-4-1-2	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067119	Normal
1030176	Water	2023-10-06	BT-4-3-1	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067121	Normal
1030176	Water	2023-10-06	BT-4-3-1	28/09/2023	PFAS surrogates	13C8-PFOA		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067121	Normal
1030176	Water	2023-10-06	BT-4-5-2	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067125	Normal
1036504	Water	2023-10-30	B1-4	16/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044715	Normal
1036504	Soil	2023-10-26	B1-4	16/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044714	Normal
1036504	Soil	2023-10-30	B1-4	16/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044713	Normal
1036504	Water	2023-10-30	B1-4	16/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044715	Normal
1036504	Soil	2023-10-30	B1-6	16/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044740	Normal
1036504	Soil	2023-10-30	B1-6	16/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044740	Normal
1036504	Soil	2023-10-30	B2-1	16/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044716	Normal
1036504	Soil	2023-10-30	B2-1	16/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044716	Normal
1036504	Soil	2023-10-26	B2-2	16/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044720	Normal
1036504	Soil	2023-10-26	B2-2	16/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044720	Normal
1036504	Soil	2023-10-26	B2-2	16/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044720	Normal
1036504	Soil	2023-10-26	B2-3	16/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044723	Normal
1036504	Soil	2023-10-30	B2-3	16/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044722	Normal
1036504	Water	2023-10-30	B3-1	16/10/2023	PFAS surrogates	13C5-PFNA (surr.)		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044730	Normal
1036504	Soil	2023-10-30	B3-2	16/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044731	Normal
1036504	Soil	2023-10-26	B3-3	16/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044735	Normal
1036504	Water	2023-10-30	B3-3	16/10/2023	PFAS surrogates	(13C4-PF						

Surrogates												
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1036893	Water	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047641	Normal
1036893	Water	2023-11-02	B3-5-POST	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047660	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_2	19/10/2023	PFAS surrogates	D7-N-MeFOSEA (surr.)		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047595	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_3	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047612	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_4	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047613	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_2	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047630	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_3	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047647	Normal
1036893	Water	2023-11-10	B1-1-POST_DAY_5	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047563	Normal
1036893	Water	2023-11-10	B3-3-POST_DAY_6	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047650	Normal
1036893	Water	2023-11-13	B1-1-POST_DAY_9	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047567	Normal
1036893	Water	2023-11-13	B3-1-POST_DAY_8	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047636	Normal
1036893	Water	2023-11-13	B3-3-POST_DAY_8	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047652	Normal
1036893	Water	2023-11-13	B3-3-POST_DAY_8	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047652	Normal
1036893	Water	2023-11-14	B1-1-POST_DAY_7	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047565	Normal
1036893	Water	2023-11-14	B1-3-POST_DAY_7	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047581	Normal
1036893	Water	2023-11-14	B3-1-POST_DAY_7	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		73	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047635	Normal
1036504	Water	2023-10-30	B1-3	16/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044712	Normal
1036504	Soil	2023-10-30	B2-1	16/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044716	Normal
1036504	Water	2023-10-30	B2-2	16/10/2023	PFAS surrogates	13C8-PFOA		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044721	Normal
1036504	Soil	2023-10-26	B2-2	16/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044720	Normal
1036504	Soil	2023-10-30	B2-2	16/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044719	Normal
1036504	Soil	2023-10-26	B2-3	16/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044723	Normal
1036504	Water	2023-10-30	B2-4	16/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044727	Normal
1036504	Water	2023-10-30	B2-4	16/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044727	Normal
1036504	Water	2023-10-30	B2-6	17/10/2023	PFAS surrogates	13C8-FOSA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044747	Normal
1036504	Water	2023-10-30	B3-1	16/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044730	Normal
1036504	Soil	2023-10-30	B3-1	16/10/2023		13C8 PFOS		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044728	Normal
1036504	Soil	2023-10-30	B3-1	16/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044728	Normal
1036504	Soil	2023-10-30	B3-1	16/10/2023		Extracted ISTD 1802 PFHxS		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044728	Normal
1030176	NA	2023-10-04	BT-3	28/09/2023	Surrogate	4-Bromofluorobenzene		74	50	150 USEPA SW846 8260	B23-Se0067108	Normal
1030176	Soil	2023-10-06	BT-1-O-2	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067055	Normal
1030176	Soil	2023-10-06	BT-1-O-3	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067058	Normal
1030176	Soil	2023-10-06	BT-3-O-2	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067093	Normal
1030176	Soil	2023-10-06	BT-3-O-3	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067096	Normal
1030176	Soil	2023-10-11	BT-2-O-3	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067078	Normal
1030176	Soil	2023-10-11	BT-2-O-3	28/09/2023	PFAS surrogates	13C8-PFOA		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067078	Normal
1030176	Soil	2023-10-11	BT-2-O-3	28/09/2023		13C8 PFOS		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067078	Normal
1030176	Soil	2023-10-11	BT-3-O-3	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067097	Normal
1030176	Water	2023-10-06	BT-1-O-1	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054	Normal
1030176	Water	2023-10-06	BT-2-1-1	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067080	Normal
1030176	Water	2023-10-06	BT-3-1-1	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067099	Normal
1030176	Water	2023-10-06	BT-3-1-3	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067101	Normal
1030176	Water	2023-10-06	BT-3-3-3	28/09/2023		13C8 PFOS		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067104	Normal
1030176	Water	2023-10-06	BT-4-O-1	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067111	Normal
1030176	Water	2023-10-06	BT-4-O-2	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067114	Normal
1030176	Water	2023-10-06	BT-4-1-1	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067118	Normal
1030176	Water	2023-10-06	BT-4-5-3	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067126	Normal
1030176	Water	2023-10-10	BT-1-5-3	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067069	Normal
1036504	Soil	2023-10-26	B3-3	16/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044735	Normal
1036504	Soil	2023-10-26	B3-3	16/10/2023		13C8 PFOS		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044735	Normal
1036504	Soil	2023-10-30	B3-3	16/10/2023	PFAS surrogates	13C8-PFOA		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044734	Normal
1036504	Soil	2023-10-30	B3-4	16/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044737	Normal
1036504	Soil	2023-10-26	B3-4	16/10/2023		13C8 PFOS		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044738	Normal
1036504	Soil	2023-10-26	B3-4	16/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044738	Normal
1036504	Soil	2023-10-30	B3-6	17/10/2023	PFAS surrogates	13C8-FOSA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044750	Normal
1036504	Soil	2023-10-30	QC03	17/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044749	Field_D
1036504	Soil	2023-10-30	QC03	17/10/2023	PFAS surrogates	13C5-PFNA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044748	Field_D
1036504	Soil	2023-10-30	QC05	17/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044754	Field_D
1026894	Soil	2023-09-20	S001	15/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039313	Normal
1026894	Soil	2023-09-20	S006	15/09/2023	PFAS surrogates	13C6-PFDA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039315	Normal
1026894	Soil	2023-09-20	S006	15/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039315	Normal
1026894	Soil	2023-09-20	S008	15/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039316	Normal
1026894	Water	2023-09-20	W001	15/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039303	Normal
1028097	Soil	2023-09-27	W001	15/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049211	Normal
1026894	Water	2023-09-20	W001	15/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039303	Normal
1028097	Soil	2023-09-27	W002	15/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049212	Normal
1028097	Soil	2023-09-27	W002	15/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049212	Normal
1028097	Soil	2023-09-27	W002	15/09/2023	PFAS surrogates	13C8-FOSA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049212	Normal
1026894	Water	2023-09-20	W003	15/09/2023		Extracted ISTD 1802 PFHxS		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039305	Normal
1026894	Water	2023-09-20	W006	15/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039308	Normal
1026894	Water	2023-09-20	W006	15/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039308	Normal
1036893	Soil	2023-11-02	B1-5-POST	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047589	Normal
1036893	Soil	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047624	Normal
1036893	Soil	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047624	Normal
1036893	Soil	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047624	Normal
1036893	Soil	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047624	Normal
1036893	Soil	2023-11-02	B3-1-POST	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047627	Normal
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047640	Normal
1036893												

Surrogates

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1036893	Water	2023-11-09	B1-3-POST_DAY_3	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047577	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_2	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047595	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_4	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047597	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_3	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047631	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_2	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047646	Normal
1036893	Water	2023-11-10	B2-1-POST_DAY_6	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047599	Normal
1036893	Water	2023-11-10	B2-3-POST_DAY_5	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047614	Normal
1036893	Water	2023-11-10	B3-1-POST_DAY_6	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047634	Normal
1036893	Water	2023-11-10	B3-1-POST_DAY_6	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047634	Normal
1036893	Water	2023-11-13	B1-1-POST_DAY_9	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047567	Normal
1036893	Water	2023-11-13	B1-1-POST_DAY_9	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047567	Normal
1036893	Water	2023-11-13	B3-1-POST_DAY_9	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047637	Normal
1036893	Water	2023-11-14	B1-3-POST_DAY_7	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047581	Normal
1036893	Water	2023-11-14	B2-3-POST_DAY_7	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047616	Normal
1036893	Water	2023-11-14	B3-1-POST_DAY_7	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047635	Normal
1036893	Water	2023-11-14	B3-1-POST_DAY_7	19/10/2023	PFAS surrogates	13C8-PFOA		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047635	Normal
1036893	Water	2023-11-14	B3-3-POST_DAY_10	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047654	Normal
1036893	Water	2023-11-14	B3-3-POST_DAY_7	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		74	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047651	Normal
1036504	Soil	2023-10-30	B1-1	16/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		75	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044704	Normal
1036504	Water	2023-10-30	B1-3	16/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		75	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044712	Normal
1036504	Soil	2023-10-30	B1-3	16/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		75	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044710	Normal
1036504	Water	2023-10-30	B1-4	16/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		75	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044715	Normal
1036504	Soil	2023-10-26	B1-4	16/10/2023	PFAS surrogates	13C6-PFDA (surr.)		75	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044714	Normal
1036504	Soil	2023-10-30	B1-4	16/10/2023	PFAS surrogates	13C8-FOSA (surr.)		75	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044713	Normal
1036504	Soil	2023-10-30	B1-4	16/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		75	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044713	Normal

Surrogates													
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type	
1036893	Water	2023-11-10	B3-3-POST_DAY_6	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		75	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047650	Normal	
1036893	Water	2023-11-10	B3-3-POST_DAY_6	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		75	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047650	Normal	
1036893	Water	2023-11-13	B3-1-POST_DAY_8	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		75	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047636	Normal	
1036893	Water	2023-11-13	B3-1-POST_DAY_9	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		75	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047637	Normal	
1036893	Water	2023-11-14	B1-1-POST_DAY_10	19/10/2023		13C8 PFOS		75	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047568	Normal	
1036893	Water	2023-11-14	B1-3-POST_DAY_7	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		75	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047581	Normal	
1036893	Water	2023-11-14	B2-1-POST_DAY_7	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		75	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047600	Normal	
1036893	Water	2023-11-14	B2-3-POST_DAY_7	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		75	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047616	Normal	
1036893	Water	2023-11-14	B3-3-POST_DAY_10	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		75	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047654	Normal	
1036504	Soil	2023-10-26	B1-3	16/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044711	Normal	
1036504	Soil	2023-10-26	B1-4	16/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044714	Normal	
1036504	Soil	2023-10-30	B1-6	16/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044740	Normal	
1036504	Water	2023-10-30	B1-6	16/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044742	Normal	
1036504	Soil	2023-10-26	B2-2	16/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044720	Normal	
1036504	Soil	2023-10-30	B2-2	16/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044719	Normal	
1036504	Water	2023-10-30	B2-2	16/10/2023		Extracted ISTD 18O2 PFHxS		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044721	Normal	
1036504	Soil	2023-10-30	B2-3	16/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044722	Normal	
1036504	Soil	2023-10-30	B2-4	16/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044725	Normal	
1030176	Soil	2023-10-06	BT-1-0-2	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067055	Normal	
1030176	Soil	2023-10-06	BT-4-0-3	28/09/2023		Extracted ISTD 18O2 PFHxS		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067115	Normal	
1030176	Soil	2023-10-11	BT-3-0-3	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067097	Normal	
1030176	Water	2023-10-06	BT-1-0-1	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054	Normal	
1030176	Water	2023-10-06	BT-1-0-1	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054	Normal	
1030176	Water	2023-10-06	BT-2-0-3	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067079	Normal	
1030176	Water	2023-10-06	BT-2-3-2	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067084	Normal	
1030176	Water	2023-10-06	BT-3-1-1	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067099	Normal	
1030176	Water	2023-10-06	BT-3-5-3	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067107	Normal	
1030176	Water	2023-10-06	BT-3-5-3	28/09/2023	PFAS surrogates	13C8-PFOA		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067107	Normal	
1030176	Water	2023-10-06	BT-3-5-3	28/09/2023		13C8 PFOS		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067107	Normal	
1030176	Water	2023-10-06	BT-4-1-3	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067120	Normal	
1030176	Water	2023-10-06	BT-4-3-1	28/09/2023		Extracted ISTD 18O2 PFHxS		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067121	Normal	
1030176	Water	2023-10-06	BT-4-3-2	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067122	Normal	
1030176	Water	2023-10-06	BT-4-5-2	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067125	Normal	
1030176	Water	2023-10-10	BT-1-1-2	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067062	Normal	
1030176	Water	2023-10-10	BT-1-5-3	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067069	Normal	
1036504	Soil	2023-10-30	B2-4	16/10/2023	PFAS surrogates	13C6-PFDA (surr.)		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044725	Normal	
1036504	Soil	2023-10-26	B2-4	16/10/2023	PFAS surrogates	13C8-PFOA		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044726	Normal	
1036504	Soil	2023-10-30	B2-4	16/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044725	Normal	
1036504	Water	2023-10-30	B2-6	17/10/2023	PFAS surrogates	13C5-PFNA (surr.)		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044747	Normal	
1036504	Soil	2023-10-26	B2-6	17/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044746	Normal	
1036504	Soil	2023-10-30	B3-2	16/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044731	Normal	
1036504	Soil	2023-10-30	B3-2	16/10/2023	PFAS surrogates	13C5-PFHxX (surr.)		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044731	Normal	
1036504	Water	2023-10-30	B3-3	16/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044736	Normal	
1036504	Soil	2023-10-30	B3-3	16/10/2023	PFAS surrogates	13C5-PFHxX (surr.)		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044734	Normal	
1036504	Soil	2023-10-26	B3-3	16/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044735	Normal	
1036504	Water	2023-10-30	B3-4	16/10/2023	PFAS surrogates	13C5-PFNA (surr.)		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044739	Normal	
1036504	Soil	2023-10-26	B3-6	17/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044751	Normal	
1036504	Soil	2023-10-30	QC03	17/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044748	Field_D	
1026894	Soil	2023-09-20	S005	15/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039314	Normal	
1028097	Soil	2023-09-27	W002	15/09/2023	PFAS surrogates	13C8-PFOA		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049212	Normal	
1028097	Soil	2023-09-27	W002	15/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049212	Normal	
1028097	Soil	2023-09-27	W002	15/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049212	Normal	
1028097	Soil	2023-09-27	W003	15/09/2023	PFAS surrogates	13C8-FOSA (surr.)		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049213	Normal	
1028097	Soil	2023-09-27	W003	15/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049213	Normal	
1026894	Water	2023-09-20	W004	15/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039306	Normal	
1026894	Water	2023-09-20	W005	15/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039307	Normal	
1026894	Water	2023-09-20	W008	15/09/2023	PFAS surrogates	13C6-PFDA (surr.)		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310	Normal	
1026894	Water	2023-09-20	W010	15/09/2023		Extracted ISTD 18O2 PFHxS		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039312	Normal	
1036893	Soil	2023-11-02	B1-5-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047589	Normal	
1036893	Soil	2023-11-02	B3-1-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047627	Normal	
1036893	Soil	2023-11-02	B3-1-POST	19/10/2023	PFAS surrogates	13C8-PFOA		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047627	Normal	
1036893	Soil	2023-11-06	B1-1-POST	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047556	Normal	
1036893	Soil	2023-11-06	B1-4-POST	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047585	Normal	
1036893	Soil	2023-11-06	B2-2-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047604	Normal	
1036893	Soil	2023-11-06	B2-4-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047620	Normal	
1036893	Water	2023-11-02	B1-2-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		76	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047571</		

Surrogates

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1036504	Soil	2023-10-26	B1-6	16/10/2023		13C8 PFOS		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044741	Normal
1030176	NA	2023-10-04	BT-1	28/09/2023	Surrogate	4-Bromofluorobenzene		77	50	150 USEPA SW846 8260	B23-Se0067070	Normal
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067052	Normal
1030176	Soil	2023-10-06	BT-1-0-3	28/09/2023		Extracted ISTD 1802 PFHxS		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067058	Normal
1030176	Soil	2023-10-06	BT-1-0-3	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067058	Normal
1030176	Soil	2023-10-06	BT-2-0-3	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067077	Normal
1030176	Soil	2023-10-06	BT-4-0-1	28/09/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067109	Normal
1030176	Soil	2023-10-11	BT-2-0-1	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067072	Normal
1030176	Soil	2023-10-11	BT-2-0-1	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067072	Normal
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094	Normal
1030176	Water	2023-10-06	BT-2-1-1	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067080	Normal
1030176	Water	2023-10-06	BT-2-3-1	28/09/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067083	Normal
1030176	Water	2023-10-06	BT-2-3-1	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067083	Normal
1030176	Water	2023-10-06	BT-3-0-1	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067092	Normal
1030176	Water	2023-10-06	BT-3-1-1	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067099	Normal
1030176	Water	2023-10-06	BT-3-1-2	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067100	Normal
1030176	Water	2023-10-06	BT-3-3-2	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067103	Normal
1030176	Water	2023-10-06	BT-4-1-1	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067118	Normal
1030176	Water	2023-10-06	BT-4-1-3	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067120	Normal
1030176	Water	2023-10-06	BT-4-5-1	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067124	Normal
1030176	Water	2023-10-06	BT-4-5-2	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067125	Normal
1030176	Water	2023-10-10	BT-1-5-2	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068	Normal
1030176	Water	2023-10-10	BT-1-5-2	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068	Normal
1036504	Water	2023-10-30	B1-6	16/10/2023		13C8 PFOS		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044742	Normal
1036504	Soil	2023-10-30	B1-6	16/10/2023	PFAS surrogates	13C8-FOSA (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044740	Normal
1036504	Soil	2023-10-30	B2-2	16/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044719	Normal
1036504	Soil	2023-10-30	B2-3	16/10/2023	PFAS surrogates	13C5-PFNA (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044722	Normal
1036504	Soil	2023-10-26	B2-4	16/10/2023	PFAS surrogates	13C6-PFDA (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044726	Normal
1036504	Soil	2023-10-30	B2-4	16/10/2023	PFAS surrogates	13C8-FOSA (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044725	Normal
1036504	Soil	2023-10-26	B3-1	16/10/2023	PFAS surrogates	13C8-PFOA		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044729	Normal
1036504	Soil	2023-10-30	B3-4	16/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044737	Normal
1036504	Water	2023-10-30	B3-4	16/10/2023		Extracted ISTD 1802 PFHxS		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044739	Normal
1036504	Soil	2023-10-30	B3-6	17/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044750	Normal
1036504	Water	2023-10-30	B3-6	17/10/2023	PFAS surrogates	13C5-PFNA (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044752	Normal
1036504	Soil	2023-10-30	QC01	17/10/2023	PFAS surrogates	13C8-PFOA		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044744	Field_D
1028097	Soil	2023-09-27	W003	15/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049213	Normal
1026894	Water	2023-09-20	W005	15/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039307	Normal
1026894	Water	2023-09-20	W007	15/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039309	Normal
1026894	Water	2023-09-20	W008	15/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310	Normal
1036893	Soil	2023-11-02	B3-1-POST	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047627	Normal
1036893	Soil	2023-11-06	B2-1-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047591	Normal
1036893	Soil	2023-11-06	B2-2-POST	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047604	Normal
1036893	Soil	2023-11-06	B2-3-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047607	Normal
1036893	Water	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047593	Normal
1036893	Water	2023-11-02	B3-3-POST	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047644	Normal
1036893	Water	2023-11-02	B3-4-POST	19/10/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047657	Normal
1036893	Water	2023-11-09	B1-1-POST_DAY_2	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047560	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_1	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047610	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_1	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047610	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_1	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047629	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_1	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047645	Normal
1036893	Water	2023-11-10	B1-1-POST_DAY_6	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047564	Normal
1036893	Water	2023-11-10	B3-3-POST_DAY_6	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047650	Normal
1036893	Water	2023-11-13	B1-3-POST_DAY_8	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047582	Normal
1036893	Water	2023-11-13	B1-3-POST_DAY_9	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047583	Normal
1036893	Water	2023-11-13	B2-1-POST_DAY_9	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047602	Normal
1036893	Water	2023-11-13	B2-3-POST_DAY_8	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047617	Normal
1036893	Water	2023-11-13	B2-3-POST_DAY_9	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047618	Normal
1036893	Water	2023-11-13	B2-3-POST_DAY_9	19/10/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047618	Normal
1036893	Water	2023-11-13	B3-1-POST_DAY_9	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047637	Normal
1036893	Water	2023-11-13	B3-3-POST_DAY_8	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047652	Normal
1036893	Water	2023-11-14	B1-1-POST_DAY_10	19/10/2023	PFAS surrogates	13C8-PFOA		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047568	Normal
1036893	Water	2023-11-14	B1-1-POST_DAY_7	19/10/2023		Extracted ISTD 1802 PFHxS		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047565	Normal
1036893	Water	2023-11-14	B1-3-POST_DAY_7	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047581	Normal
1036893	Water	2023-11-14	B2-3-POST_DAY_10	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047619	Normal
1036504	Water	2023-10-30	B1-1	16/10/2023		Extracted ISTD 1802 PFHxS		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044706	Normal
1036504	Water	2023-10-30	B1-2	16/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044709	Normal
1036504	Soil	2023-10-30	B1-2	16/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044707	Normal	
1036504	Soil	2023-10-26	B1-3	16/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044711	Normal
1036504	Soil	2023-10-30	B2-1	16/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044716	Normal
1036504	Soil	2023-10-30	B2-1	16/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044716	Normal
1036504	Water	2023-10-30	B2-3	16/10/2023		13C8 PFOS		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044724	Normal
1036504	Water	2023-10-30	B2-3	16/10/2023	PFAS surrogates	13C8-FOSA (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044724	Normal
1036504	Soil	2023-10-26	B2-4	16/10/2023	PFAS surrogates	13C8-FOSA (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044726	Normal
1036504	Soil	2023-10-26	B2-4	16/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044726	Normal
1030176	NA	2023-10-04	BT-2	28/09/2023	Surrogate	4-Bromofluorobenzene		78	50	150 USEPA SW846 8260	B23-Se0067089	Normal
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067052	Normal
1030176	Soil	2023-10-06	BT-2-0-1	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr						

Surrogates													
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type	
1036504	Soil	2023-10-26	B3-2	16/10/2023		13C8 PFOS		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044732	Normal	
1036504	Water	2023-10-30	B3-2	16/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044733	Normal	
1036504	Soil	2023-10-30	B3-3	16/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044734	Normal	
1036504	Soil	2023-10-30	B3-4	16/10/2023		Extracted ISTD 1802 PFHxS		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044737	Normal	
1036504	Soil	2023-10-30	B3-6	17/10/2023		13C8 PFOS		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044750	Normal	
1036504	Soil	2023-10-30	QC01	17/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044743	Field_D	
1036504	Soil	2023-10-30	QC01	17/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044744	Field_D	
1036504	Soil	2023-10-30	QC01	17/10/2023		Extracted ISTD 1802 PFHxS		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044743	Field_D	
1036504	Soil	2023-10-30	QC03	17/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044748	Field_D	
1036504	Soil	2023-10-30	QC05	17/10/2023		Extracted ISTD 1802 PFHxS		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044753	Field_D	
1026894	Soil	2023-09-20	S006	15/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039315	Normal	
1026894	Soil	2023-09-20	S008	15/09/2023	PFAS surrogates	13C8-PFOA		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039316	Normal	
1028097	Soil	2023-09-27	W001	15/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049211	Normal	
1028097	Soil	2023-09-27	W002	15/09/2023	PFAS surrogates	13C5-PFHxA (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049212	Normal	
1028097	Soil	2023-09-27	W002	15/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049212	Normal	
1028097	Soil	2023-09-27	W002	15/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049212	Normal	
1026894	Water	2023-09-20	W003	15/09/2023	PFAS surrogates	13C8-PFOA		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039305	Normal	
1026894	Water	2023-09-20	W005	15/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039307	Normal	
1026894	Water	2023-09-20	W006	15/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039308	Normal	
1026894	Water	2023-09-20	W006	15/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039308	Normal	
1036893	Soil	2023-11-02	B3-1-POST	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047627	Normal	
1036893	Soil	2023-11-02	B3-3-POST	19/10/2023		13C8 PFOS		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047643	Normal	
1036893	Soil	2023-11-06	B1-1-POST	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047556	Normal	
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047569	Normal	
1036893	Soil	2023-11-06	B1-5-POST	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047588	Normal	
1036893	Soil	2023-11-06	B2-1-POST	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047591	Normal	
1036893	Soil	2023-11-06	B2-2-POST	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047604	Normal	
1036893	Soil	2023-11-06	B2-5-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047623	Normal	
1036893	Soil	2023-11-06	B3-1-POST	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047623	Normal	
1036893	Soil	2023-11-06	B3-2-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047626	Normal	
1036893	Soil	2023-11-06	B3-2-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047639	Normal	
1036893	Water	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047606	Normal	
1036893	Water	2023-11-02	B3-3-POST	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047644	Normal	
1036893	Water	2023-11-02	B3-5-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047660	Normal	
1036893	Water	2023-11-02	QC23	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047663	Field_D	
1036893	Water	2023-11-09	B1-1-POST_DAY_4	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047562	Normal	
1036893	Water	2023-11-09	B2-1-POST_DAY_2	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047595	Normal	
1036893	Water	2023-11-09	B2-1-POST_DAY_2	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047595	Normal	
1036893	Water	2023-11-09	B3-1-POST_DAY_3	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047631	Normal	
1036893	Water	2023-11-10	B1-1-POST_DAY_5	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047563	Normal	
1036893	Water	2023-11-10	B1-1-POST_DAY_6	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047564	Normal	
1036893	Water	2023-11-10	B1-1-POST_DAY_6	19/10/2023		Extracted ISTD 1802 PFHxS		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047564	Normal	
1036893	Water	2023-11-10	B1-3-POST_DAY_5	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047579	Normal	
1036893	Water	2023-11-10	B2-1-POST_DAY_5	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047598	Normal	
1036893	Water	2023-11-10	B2-1-POST_DAY_6	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047599	Normal	
1036893	Water	2023-11-10	B2-1-POST_DAY_6	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047599	Normal	
1036893	Water	2023-11-10	B2-1-POST_DAY_6	19/10/2023		13C8 PFOS		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047599	Normal	
1036893	Water	2023-11-10	B2-3-POST_DAY_5	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047614	Normal	
1036893	Water	2023-11-13	B2-1-POST_DAY_8	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047601	Normal	
1036893	Water	2023-11-13	B2-3-POST_DAY_8	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047617	Normal	
1036893	Water	2023-11-14	B2-1-POST_DAY_10	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047603	Normal	
1036893	Water	2023-11-14	B2-1-POST_DAY_10	19/10/2023		Extracted ISTD 1802 PFHxS		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047603	Normal	
1036893	Water	2023-11-14	B2-3-POST_DAY_10	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047619	Normal	
1036893	Water	2023-11-14	B2-3-POST_DAY_7	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047616	Normal	
1036893	Water	2023-11-14	B2-3-POST_DAY_7	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047616	Normal	
1036893	Water	2023-11-14	B2-3-POST_DAY_7	19/10/2023	PFAS surrogates	13C8-PFOA		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047616	Normal	
1036893	Water	2023-11-14	B3-3-POST_DAY_10	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		78	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047654	Normal	
1036504	Water	2023-10-30	B1-2	16/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		79	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044709	Normal	
1036504	Soil	2023-10-26	B1-2	16/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		81	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044708	Normal	
1036504	Soil	2023-10-30	B1-2	16/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044707	Normal	
1036504	Soil	2023-10-30	B1-3	16/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		79	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044710	Normal	
1036504	Water	2023-10-30	B1-3	16/10/2023		13C8 PFOS		79	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044712	Normal	
1036504	Soil	2023-10-26	B1-4	16/10/2023	PFAS surrogates	13C8-PFOA		79	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044714	Normal	
1030176	Soil	2023-10-06	BT-1-0-3	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		79	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067058	Normal	
1030176	Soil	2023-10-06	BT-4-0-1	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		79	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067109	Normal	
1030176	Soil	2023-10-11	BT-1-0-1	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		79	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se00		

Surrogates													Lab Sample ID	Sample Type
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name				
1036504	Soil	2023-10-30	B2-2	16/10/2023	PFAS surrogates	13C6-PFDA (surr.)	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044719	Normal
1036504	Soil	2023-10-26	B2-2	16/10/2023		13C8 PFOS	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044720	Normal
1036504	Soil	2023-10-26	B2-2	16/10/2023		Extracted ISTD 1802 PFHxS	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044720	Normal
1036504	Water	2023-10-30	B2-4	16/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044727	Normal
1036504	Water	2023-10-30	B2-6	17/10/2023	PFAS surrogates	13C8-PFOA	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044747	Normal
1036504	Soil	2023-10-26	B3-1	16/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044729	Normal
1036504	Soil	2023-10-30	B3-2	16/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044731	Normal
1036504	Water	2023-10-30	B3-4	16/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044739	Normal
1036504	Soil	2023-10-30	QC01	17/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044743	Field_D
EB2332809	Soil	2023-10-27	QC04	17/10/2023 17:55	PFAS surrogates	13C4-PFOS	79	76	136	EP231S: PFAS Surrogate			EB2332809002	Interlab_D
1036504	Soil	2023-10-30	QC05	17/10/2023		13C8 PFOS	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044753	Field_D
1036504	Soil	2023-10-30	QC05	17/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044753	Field_D
1026894	Soil	2023-09-20	S001	15/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0039313	Normal
1026894	Soil	2023-09-20	S006	15/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0039315	Normal
1026894	Soil	2023-09-20	S008	15/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0039316	Normal
1026894	Soil	2023-09-20	S008	15/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0039316	Normal
1026894	Soil	2023-09-20	S008	15/09/2023	PFAS surrogates	13C5-PFNA (surr.)	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0039316	Normal
1028097	Soil	2023-09-27	W003	15/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0049213	Normal
1036893	Soil	2023-11-02	B1-1-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047557	Normal
1036893	Soil	2023-11-02	B1-5-POST	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047589	Normal
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047640	Normal
1036893	Soil	2023-11-06	B2-3-POST	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047607	Normal
1036893	Soil	2023-11-06	B2-4-POST	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047620	Normal
1036893	Soil	2023-11-06	B2-4-POST	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047620	Normal
1036893	Soil	2023-11-06	B2-5-POST	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047623	Normal
1036893	Soil	2023-11-06	B3-3-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047642	Normal
1036893	Soil	2023-11-06	B3-4-POST	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047655	Normal
1036893	Water	2023-11-02	B2-3-POST	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047609	Normal
1036893	Water	2023-11-02	QC23	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047663	Field_D
1036893	Water	2023-11-09	B1-3-POST_DAY_1	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047575	Normal
1036893	Water	2023-11-09	B1-3-POST_DAY_2	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047576	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_1	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047594	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_2	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047611	Normal
1036893	Water	2023-11-10	B1-1-POST_DAY_5	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047563	Normal
1036893	Water	2023-11-10	B1-3-POST_DAY_5	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047579	Normal
1036893	Water	2023-11-10	B3-1-POST_DAY_5	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047633	Normal
1036893	Water	2023-11-10	B3-1-POST_DAY_6	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047634	Normal
1036893	Water	2023-11-10	B3-3-POST_DAY_6	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047650	Normal
1036893	Water	2023-11-13	B1-3-POST_DAY_9	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047583	Normal
1036893	Water	2023-11-13	B1-3-POST_DAY_9	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047583	Normal
1036893	Water	2023-11-13	B3-1-POST_DAY_8	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047636	Normal
1036893	Water	2023-11-13	B3-3-POST_DAY_9	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047653	Normal
1036893	Water	2023-11-14	B1-1-POST_DAY_7	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047565	Normal
1036893	Water	2023-11-14	B1-3-POST_DAY_10	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047584	Normal
1036893	Water	2023-11-14	B2-1-POST_DAY_7	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047600	Normal
1036893	Water	2023-11-14	B3-1-POST_DAY_10	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047638	Normal
1036893	Water	2023-11-14	B3-1-POST_DAY_7	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047635	Normal
1026894	Water	2023-09-20	W007	15/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	79	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0039309	Normal
1036504	Soil	2023-10-30	B1-1	16/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	80	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044704	Normal
1036504	Soil	2023-10-30	B1-2	16/10/2023	PFAS surrogates	13C5-PFHxA (surr.)	71	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044707	Normal
1036504	Soil	2023-10-30	B1-3	16/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	80	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044710	Normal
1036504	Water	2023-10-30	B1-3	16/10/2023	PFAS surrogates	13C8-FOSA (surr.)	80	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044712	Normal
1036504	Soil	2023-10-26	B1-3	16/10/2023	PFAS surrogates	13C8-PFOA	80	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044711	Normal
1030176	Soil	2023-10-06	BT-1-0-2	28/09/2023	PFAS surrogates	13C8-PFOA	80	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067055	Normal
1030176	Soil	2023-10-06	BT-1-0-3	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	80	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067058	Normal
1030176	Soil	2023-10-06	BT-4-0-2	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)	80	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067112	Normal
1030176	Soil	2023-10-06	BT-4-0-3	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	80	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067115	Normal
1030176	Soil	2023-10-06	BT-4-0-3	28/09/2023	PFAS surrogates	13C8 PFOS	80	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067115	Normal
1030176	Soil	2023-10-11	BT-2-0-2	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	80	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067075	Normal
1030176	Soil	2023-10-11	BT-2-0-2	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	80	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067075	Normal
1030176	Soil	2023-10-11	BT-4-0-1	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	80	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067110	Normal
1030176	Soil	2023-10-11	BT-4-0-3	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)	80	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067116	Normal
1030176	Water	2023-10-06	BT-1-0-3	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	80	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067060	Normal
1030176	Water	2023-10-06	BT-2-1-1	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)	80	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067080	Normal
1030176	Water	2023-10-06	BT-2-3-1	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	80	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067083	Normal
1030176	Water	2023-10-06	BT-2-5-3	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	80	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067088	Normal
1030176	Water	2023-10-06	BT-4-0-3	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	80	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067117	Normal
1030176	Water	2023-10-06	BT-4-3-1	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)	80	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067121	Normal
1030176	Water	2023-10-10	BT-2-1-2	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	80	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067081	Normal
1036504	Water	2023-10-30	B1-3	16/10/2023	PFAS surrogates	13C8-PFOA	80	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044712	Normal
1036504	Soil	2023-10-26	B1-4	16/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	80	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044714	Normal
1036504	Water	2023-10-30	B1-6	16/10/2023	PFAS surrogates	13C8-FOSA (surr.)	80	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044742	Normal
1036504														

Surrogates												
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1036893	Soil	2023-11-06	B2-4-POST	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		80	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047620	Normal
1036893	Soil	2023-11-06	B2-5-POST	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		80	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047623	Normal
1036893	Soil	2023-11-06	B3-4-POST	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		80	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047655	Normal
1036893	Water	2023-11-02	B1-1-POST	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		80	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047558	Normal
1036893	Water	2023-11-02	B1-4-POST	19/10/2023		13C8 PFOS		80	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047587	Normal
1036893	Water	2023-11-02	B3-3-POST	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		80	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047644	Normal
1036893	Water	2023-11-02	B3-5-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		80	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047660	Normal
1036893	Water	2023-11-02	QC23	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		80	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047663	Field_D
1036893	Water	2023-11-02	QC23	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		80	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047663	Field_D
1036893	Water	2023-11-09	B1-1-POST_DAY_1	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		80	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047559	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_1	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		80	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047594	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_2	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		80	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047595	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_1	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		80	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047629	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_2	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		80	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047630	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_1	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		80	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047645	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_4	19/10/2023	PFAS surrogates	13C5-PFHx (surr.)		80	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047648	Normal
1036893	Water	2023-11-10	B1-1-POST_DAY_6	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		80	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047564	Normal
1036893	Water	2023-11-10	B2-1-POST_DAY_5	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		80	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047598	Normal
1036893	Water	2023-11-10	B3-1-POST_DAY_5	19/10/2023		13C8 PFOS		80	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047633	Normal
1036893	Water	2023-11-10	B3-3-POST_DAY_5	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		80	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047649	Normal
1036893	Water	2023-11-13	B2-1-POST_DAY_8	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		80	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047601	Normal
1036893	Water	2023-11-13	B2-1-POST_DAY_8	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		80	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047601	Normal
1036893	Water	2023-11-13	B2-1-POST_DAY_9	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		80	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047602	Normal
1036893	Water	2023-11-13	B3-1-POST_DAY_9	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		80	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047637	Normal
1036893	Water	2023-11-13	B3-1-POST_DAY_9	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		80	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047637	Normal

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1036893	Water	2023-11-10	B1-1-POST_DAY_6	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		81	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047564	Normal
1036893	Water	2023-11-10	B2-1-POST_DAY_5	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		81	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047598	Normal
1036893	Water	2023-11-10	B2-1-POST_DAY_6	19/10/2023	PFAS surrogates	13C8-PFOA		81	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047599	Normal
1036893	Water	2023-11-10	B2-3-POST_DAY_5	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		81	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047614	Normal
1036893	Water	2023-11-13	B1-3-POST_DAY_9	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		81	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047583	Normal
1036893	Water	2023-11-13	B2-1-POST_DAY_8	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		81	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047601	Normal
1036893	Water	2023-11-13	B2-3-POST_DAY_8	19/10/2023		13C8 PFOS		81	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047617	Normal
1036893	Water	2023-11-14	B1-3-POST_DAY_10	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		81	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047584	Normal
1036893	Water	2023-11-14	B3-3-POST_DAY_7	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		81	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047651	Normal
1036504	Soil	2023-10-26	B1-1	16/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044705	Normal
1036504	Water	2023-10-30	B1-1	16/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044706	Normal
1036504	Water	2023-10-30	B1-3	16/10/2023		Extracted ISTD 1802 PFHxS		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044712	Normal
1036504	Soil	2023-10-26	B1-4	16/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044714	Normal
1036504	Water	2023-10-30	B1-4	16/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044715	Normal
1036504	Soil	2023-10-26	B1-6	16/10/2023	PFAS surrogates	13C8-PFOA		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044741	Normal
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067052	Normal
1030176	Soil	2023-10-06	BT-2-0-1	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067071	Normal
1030176	Soil	2023-10-06	BT-4-0-1	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067109	Normal
1030176	Soil	2023-10-06	BT-4-0-1	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067109	Normal
1030176	Soil	2023-10-06	BT-4-0-2	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067112	Normal
1030176	Soil	2023-10-06	BT-4-0-2	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067112	Normal
1030176	Soil	2023-10-06	BT-4-0-2	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067112	Normal
1030176	Soil	2023-10-11	BT-2-0-1	28/09/2023	PFAS surrogates	13C8-PFOA		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067072	Normal
1030176	Soil	2023-10-11	BT-2-0-1	28/09/2023		13C8 PFOS		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067072	Normal
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094	Normal
1030176	Soil	2023-10-11	BT-3-0-3	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067097	Normal
1030176	Soil	2023-10-11	BT-4-0-1	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067110	Normal
1030176	Soil	2023-10-11	BT-4-0-3	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067116	Normal
1030176	Water	2023-10-06	BT-2-0-1	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067073	Normal
1030176	Water	2023-10-06	BT-2-0-3	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067079	Normal
1030176	Water	2023-10-06	BT-2-3-1	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067083	Normal
1030176	Water	2023-10-06	BT-2-3-2	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067084	Normal
1030176	Water	2023-10-06	BT-2-3-2	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067084	Normal
1030176	Water	2023-10-06	BT-3-1-2	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067100	Normal
1030176	Water	2023-10-06	BT-3-3-1	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067102	Normal
1030176	Water	2023-10-06	BT-4-1-1	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067118	Normal
1030176	Water	2023-10-06	BT-4-1-2	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067119	Normal
1030176	Water	2023-10-06	BT-4-1-3	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067120	Normal
1030176	Water	2023-10-06	BT-4-3-1	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067121	Normal
1030176	Water	2023-10-06	BT-4-3-2	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067122	Normal
1030176	Water	2023-10-06	BT-4-5-2	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067125	Normal
1030176	Water	2023-10-06	BT-4-5-3	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067126	Normal
1030176	Water	2023-10-06	BT-4-5-3	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067126	Normal
1030176	Water	2023-10-10	BT-1-5-2	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068	Normal
1036504	Soil	2023-10-30	B2-1	16/10/2023		13C8 PFOS		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044716	Normal
1036504	Soil	2023-10-30	B2-3	16/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044722	Normal
1036504	Soil	2023-10-26	B2-3	16/10/2023	PFAS surrogates	13C6-PFDoDA (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044723	Normal
1036504	Soil	2023-10-30	B2-3	16/10/2023		13C8 PFOS		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044722	Normal
1036504	Soil	2023-10-26	B2-4	16/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044726	Normal
1036504	Soil	2023-10-26	B2-4	16/10/2023		13C8 PFOS		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044726	Normal
1036504	Soil	2023-10-26	B2-6	17/10/2023	PFAS surrogates	13C8-PFOA		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044746	Normal
1036504	Water	2023-10-30	B2-6	17/10/2023		Extracted ISTD 1802 PFHxS		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044747	Normal
1036504	Soil	2023-10-26	B3-1	16/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044729	Normal
1036504	Water	2023-10-30	B3-1	16/10/2023	PFAS surrogates	13C8-PFOA		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044730	Normal
1036504	Soil	2023-10-30	B3-1	16/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044728	Normal
1036504	Water	2023-10-30	B3-1	16/10/2023		Extracted ISTD 1802 PFHxS		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044730	Normal
1036504	Soil	2023-10-30	B3-2	16/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044731	Normal
1036504	Water	2023-10-30	B3-4	16/10/2023	PFAS surrogates	13C8-PFOA		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044739	Normal
1036504	Soil	2023-10-30	B3-4	16/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044737	Normal
1036504	Soil	2023-10-26	B3-6	17/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044751	Normal
1026894	Soil	2023-09-20	S001	15/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039313	Normal
1026894	Water	2023-09-20	W001	15/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039303	Normal
1028097	Soil	2023-09-27	W002	15/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049212	Normal
1026894	Water	2023-09-20	W002	15/09/2023	PFAS surrogates	13C8-FOSA (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039304	Normal
1026894	Water	2023-09-20	W005	15/09/2023	Surrogate	4-Bromofluorobenzene		82	50	150 USEPA SW846 8260	B23-Se0039307	Normal
1026894	Water	2023-09-20	W008	15/09/2023		13C8 PFOS		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310	Normal
1036893	Soil	2023-11-02	B1-4-POST	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047586	Normal
1036893	Soil	2023-11-02	B1-4-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047586	Normal
1036893	Soil	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047621	Normal
1036893	Soil	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047624	Normal
1036893	Soil	2023-11-02	B3-5-POST	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047659	Normal
1036893	Soil	2023-11-06	B1-5-POST	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047588	Normal
1036893	Soil	2023-11-06	B3-2-POST	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047639	Normal
1036893	Soil	2023-11-06	B3-4-POST	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047655	Normal
1036893	Water	2023-11-02	B1-1-POST	19/10/2023	PFAS surrogates	13C8-PFOA		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047558	Normal
1036893	Water	2023-11-02	B1-5-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047590	Normal
1036893	Water	2023-11-02	B1-5-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047590	Normal
1036893	Water	2023-11-02	B3-1-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		82	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047628	Normal
1036893	Water	2										

Surrogates												Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1036893	Water	2023-11-13	B2-1-POST_DAY_9	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate						82	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047602	Normal
1036893	Water	2023-11-13	B2-1-POST_DAY_9	19/10/2023		13C8 PFOS						82	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047602	Normal
1036893	Water	2023-11-13	B2-3-POST_DAY_8	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate						82	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047617	Normal
1036893	Water	2023-11-13	B2-3-POST_DAY_9	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)						82	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047618	Normal
1036893	Water	2023-11-13	B3-1-POST_DAY_8	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)						82	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047636	Normal
1036893	Water	2023-11-13	B3-1-POST_DAY_8	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)						82	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047636	Normal
1036893	Water	2023-11-13	B3-3-POST_DAY_9	19/10/2023		13C8 PFOS						82	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047653	Normal
1036893	Water	2023-11-14	B1-1-POST_DAY_10	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate						82	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047568	Normal
1036893	Water	2023-11-14	B1-1-POST_DAY_10	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)						82	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047568	Normal
EB2332809	Soil	2023-10-27	QC06	17/10/2023 17:55	PFAS surrogates	13C4-PFOS						82.5	76	136	EP231S: PFAS Surrogate	EB2332809003	Interlab_D
1036504	Soil	2023-10-30	B1-1	16/10/2023	PFAS surrogates	(13C4-PFHpa) Surrogate						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044704	Normal
1036504	Soil	2023-10-26	B1-4	16/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044714	Normal
1036504	Water	2023-10-30	B1-6	16/10/2023	PFAS surrogates	13C5-PFNA (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044742	Normal
1036504	Soil	2023-10-30	B1-6	16/10/2023	PFAS surrogates	13C8-PFOA						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044740	Normal
1030176	Soil	2023-10-06	BT-1-0-3	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067058	Normal
1030176	Soil	2023-10-06	BT-3-0-1	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067090	Normal
1030176	Soil	2023-10-06	BT-4-0-2	28/09/2023	PFAS surrogates	13C8-PFOA						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067112	Normal
1030176	Soil	2023-10-06	BT-4-0-3	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067115	Normal
1030176	Soil	2023-10-11	BT-1-0-3	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067059	Normal
1030176	Soil	2023-10-11	BT-3-0-1	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067091	Normal
1030176	Soil	2023-10-11	BT-4-0-3	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067116	Normal
1030176	Soil	2023-10-11	BT-4-0-3	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067116	Normal
1030176	Water	2023-10-06	BT-1-1-1	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067061	Normal
1030176	Water	2023-10-06	BT-2-0-2	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067076	Normal
1030176	Water	2023-10-06	BT-2-0-3	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067079	Normal
1030176	Water	2023-10-06	BT-2-3-1	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067083	Normal
1030176	Water	2023-10-06	BT-2-3-1	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067083	Normal
1030176	Water	2023-10-06	BT-3-3-3	28/09/2023		Extracted ISTD 1802 PFHxS						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067104	Normal
1030176	Water	2023-10-06	BT-4-0-1	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067111	Normal
1030176	Water	2023-10-06	BT-4-0-2	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067114	Normal
1030176	Water	2023-10-06	BT-4-1-1	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067118	Normal
1030176	Water	2023-10-06	BT-4-1-2	28/09/2023	PFAS surrogates	13C8-PFOA						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067119	Normal
1036504	Soil	2023-10-26	B1-6	16/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044741	Normal
1036504	Water	2023-10-30	B2-1	16/10/2023	PFAS surrogates	13C5-PFHxA (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044718	Normal
1036504	Soil	2023-10-30	B2-2	16/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044719	Normal
1036504	Soil	2023-10-26	B2-3	16/10/2023	PFAS surrogates	13C8-FOSA (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044723	Normal
1036504	Soil	2023-10-30	B2-4	16/10/2023		13C8 PFOS						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044725	Normal
1036504	Soil	2023-10-30	B2-4	16/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044725	Normal
1036504	Soil	2023-10-30	B3-1	16/10/2023	PFAS surrogates	13C5-PFNA (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044728	Normal
1036504	Soil	2023-10-26	B3-2	16/10/2023	PFAS surrogates	13C8-PFOA						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044732	Normal
1036504	Soil	2023-10-30	B3-3	16/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044734	Normal
1036504	Water	2023-10-30	B3-6	17/10/2023	PFAS surrogates	13C8-FOSA (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044752	Normal
1036504	Water	2023-10-30	B3-6	17/10/2023		Extracted ISTD 1802 PFHxS						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044752	Normal
1036504	Soil	2023-10-30	QC03	17/10/2023	PFAS surrogates	13C6-PFDA (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044748	Field_D
1026894	Soil	2023-09-20	S001	15/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039313	Normal
1026894	Soil	2023-09-20	S006	15/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039315	Normal
1028097	Soil	2023-09-27	W002	15/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049212	Normal
1026894	Water	2023-09-20	W007	15/09/2023	PFAS surrogates	13C6-PFDA (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039309	Normal
1026894	Water	2023-09-20	W008	15/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310	Normal
1036893	Soil	2023-11-02	B1-1-POST	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047557	Normal
1036893	Soil	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047624	Normal
1036893	Soil	2023-11-02	B3-3-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047643	Normal
1036893	Soil	2023-11-06	B2-1-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047591	Normal
1036893	Soil	2023-11-06	B2-1-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047591	Normal
1036893	Soil	2023-11-06	B2-2-POST	19/10/2023	PFAS surrogates	13C8-PFOA						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047604	Normal
1036893	Soil	2023-11-06	B2-4-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047620	Normal
1036893	Soil	2023-11-06	B3-2-POST	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047639	Normal
1036893	Water	2023-11-02	B1-1-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047558	Normal
1036893	Water	2023-11-02	B3-4-POST	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047657	Normal
1036893	Water	2023-11-02	B3-5-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047660	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_4	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047597	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_1	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047629	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_1	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047629	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_2	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047646	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_4	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047648	Normal
1036893	Water	2023-11-10	B1-1-POST_DAY_5	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)						83	20	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047563	Normal
1036893	Water	2023-11-10	B2-3-POST_DAY_5	19/10/2023		13C8 PFOS						83	20	20	130		

Surrogates

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1030176	Water	2023-10-06	BT-2-5-2	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067087	Normal
1030176	Water	2023-10-06	BT-3-1-1	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067099	Normal
1030176	Water	2023-10-06	BT-4-1-3	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067120	Normal
1030176	Water	2023-10-06	BT-4-3-3	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067123	Normal
1036504	Soil	2023-10-30	B2-2	16/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044719	Normal
1036504	Soil	2023-10-26	B2-3	16/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044723	Normal
1036504	Soil	2023-10-30	B2-6	17/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044745	Normal
1036504	Soil	2023-10-26	B3-2	16/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044732	Normal
1036504	Soil	2023-10-26	B3-3	16/10/2023	PFAS surrogates	(13C5-PFHxA) Surrogate	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044735	Normal
1036504	Water	2023-10-30	B3-3	16/10/2023	PFAS surrogates	13C5-PFHxA (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044736	Normal
1036504	Soil	2023-10-30	B3-3	16/10/2023		13C8 PFOS	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044734	Normal
1036504	Water	2023-10-30	B3-3	16/10/2023	PFAS surrogates	13C8-PFOA	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044736	Normal
1036504	Soil	2023-10-30	B3-6	17/10/2023	PFAS surrogates	13C5-PFNA (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044750	Normal
1036504	Soil	2023-10-30	QC01	17/10/2023	PFAS surrogates	13C8-PFOA	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044743	Field_D
1036504	Soil	2023-10-30	QC05	17/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044754	Field_D
1026894	Soil	2023-09-20	S001	15/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039313	Normal
1026894	Soil	2023-09-20	S008	15/09/2023	PFAS surrogates	13C6-PFDA (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039316	Normal
1026894	Water	2023-09-20	W003	15/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039305	Normal
1028097	Soil	2023-09-27	W003	15/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049213	Normal
1028097	Soil	2023-09-27	W003	15/09/2023	PFAS surrogates	13C5-PFHxA (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049213	Normal
1026894	Water	2023-09-20	W003	15/09/2023	Surrogate	4-Bromofluorobenzene	84	50	150	USEPA SW846 8260	B23-Se0039305	Normal
1026894	Water	2023-09-20	W006	15/09/2023	PFAS surrogates	13C5-PFHxA (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039308	Normal
1026894	Water	2023-09-20	W009	15/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039311	Normal
1036893	Soil	2023-11-02	B3-4-POST	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047656	Normal
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047569	Normal
1036893	Soil	2023-11-06	B2-3-POST	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047607	Normal
1036893	Soil	2023-11-06	B3-1-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047626	Normal
1036893	Soil	2023-11-06	B3-4-POST	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047655	Normal
1036893	Water	2023-11-02	B1-4-POST	19/10/2023	PFAS surrogates	13C8-PFOA	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047587	Normal
1036893	Water	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047606	Normal
1036893	Water	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047625	Normal
1036893	Water	2023-11-02	QC21	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047662	Field_D
1036893	Water	2023-11-09	B1-1-POST_DAY_2	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047560	Normal
1036893	Water	2023-11-09	B1-3-POST_DAY_2	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047576	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_3	19/10/2023		13C8 PFOS	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047596	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_1	19/10/2023	PFAS surrogates	(13C4-PFBa) Surrogate	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047610	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_3	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047612	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_3	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047631	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_4	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047632	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_3	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047647	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_4	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047648	Normal
1036893	Water	2023-11-10	B1-3-POST_DAY_5	19/10/2023		13C8 PFOS	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047579	Normal
1036893	Water	2023-11-10	B1-3-POST_DAY_6	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047580	Normal
1036893	Water	2023-11-13	B1-1-POST_DAY_9	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047567	Normal
1036893	Water	2023-11-13	B1-3-POST_DAY_8	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047582	Normal
1036893	Water	2023-11-13	B1-3-POST_DAY_8	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047582	Normal
1036893	Water	2023-11-13	B1-3-POST_DAY_9	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047583	Normal
1036893	Water	2023-11-13	B2-3-POST_DAY_9	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047618	Normal
1036893	Water	2023-11-13	B3-1-POST_DAY_8	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047636	Normal
1036893	Water	2023-11-13	B3-3-POST_DAY_8	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047652	Normal
1036893	Water	2023-11-14	B2-3-POST_DAY_7	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047616	Normal
1036893	Water	2023-11-14	B3-1-POST_DAY_10	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047638	Normal
1036893	Water	2023-11-14	B3-1-POST_DAY_7	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047635	Normal
1036893	Water	2023-11-14	B3-3-POST_DAY_10	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047654	Normal
1036893	Water	2023-11-14	B3-3-POST_DAY_7	19/10/2023		13C8 PFOS	84	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047651	Normal
1036504	Soil	2023-10-26	B1-1	16/10/2023	PFAS surrogates	13C8-FOSA (surr.)	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044705	Normal
1036504	Soil	2023-10-26	B1-2	16/10/2023	PFAS surrogates	13C6-PFDA (surr.)	87	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044708	Normal
1036504	Soil	2023-10-26	B1-3	16/10/2023		13C8 PFOS	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044711	Normal
1036504	Soil	2023-10-26	B1-6	16/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044741	Normal
1036504	Soil	2023-10-26	B2-2	16/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044720	Normal
1030176	Soil	2023-10-06	BT-2-0-1	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067071	Normal
1030176	Soil	2023-10-06	BT-3-0-1	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067090	Normal
1030176	Water	2023-10-06	BT-1-5-1	28/09/2023	PFAS surrogates	13C8-PFOA	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067067	Normal
1030176	Water	2023-10-06	BT-2-0-1	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067073	Normal
1030176	Water	2023-10-06	BT-2-0-1	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067073	Normal
1030176	Water	2023-10-06	BT-2-0-2	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067076	Normal
1030176	Water	2023-10-06	BT-2-3-1	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067083	Normal
1030176	Water	2023-10-06	BT-2-5-1	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067086	Normal
1030176	Water	2023-10-06	BT-2-5-3	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067088	Normal
1030176	Water	2023-10-06	BT-3-3-3	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067104	Normal
1030176	Water	2023-10-06	BT-3-5-2	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067106	Normal
1030176	Water	2023-10-06	BT-4-3-1	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067121	Normal
1030176	Water	2023-10-06	BT-4-3-1	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067121	Normal
1030176	Water	2023-10-06	BT-4-5-1	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067124	Normal
1030176	Water	2023-10-10	BT-1-1-2	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067062	Normal
1036504	Soil	2023-10-30	B2-2	16/10/2023		13C8 PFOS	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044719	Normal
1036504	Soil	2023-10-30	B2-3	16/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)						

Surrogates												
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1026894	Water	2023-09-20	W002	15/09/2023	PFAS surrogates	(13C4-PFHpa) Surrogate	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039304	Normal
1036893	Soil	2023-11-02	B1-1-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047557	Normal
1036893	Soil	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047624	Normal
1036893	Soil	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	13C8-PFOA	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047624	Normal
1036893	Soil	2023-11-06	B2-2-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047604	Normal
1036893	Soil	2023-11-06	B3-3-POST	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047642	Normal
1036893	Water	2023-11-02	B1-1-POST	19/10/2023	PFAS surrogates	13C5-PFHxa (surr.)	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047558	Normal
1036893	Water	2023-11-02	B1-2-POST	19/10/2023		Extracted ISTD 1802 PFHxS	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047571	Normal
1036893	Water	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047593	Normal
1036893	Water	2023-11-02	B3-3-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047644	Normal
1036893	Water	2023-11-02	B3-5-POST	19/10/2023	PFAS surrogates	(13C4-PFHpa) Surrogate	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047660	Normal
1036893	Water	2023-11-02	B3-5-POST	19/10/2023	PFAS surrogates	13C8-PFOA	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047660	Normal
1036893	Water	2023-11-02	QC21	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047662	Field_D
1036893	Water	2023-11-02	QC23	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047663	Field_D
1036893	Water	2023-11-09	B1-1-POST_DAY_3	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047561	Normal
1036893	Water	2023-11-09	B1-3-POST_DAY_3	19/10/2023	PFAS surrogates	13C5-PFHxa (surr.)	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047577	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_1	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047594	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_2	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047595	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_3	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047596	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_3	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047612	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_1	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047629	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_3	19/10/2023		13C8 PFOS	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047631	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_4	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047648	Normal
1036893	Water	2023-11-10	B1-3-POST_DAY_5	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047579	Normal
1036893	Water	2023-11-10	B2-3-POST_DAY_5	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047614	Normal
1036893	Water	2023-11-10	B2-3-POST_DAY_6	19/10/2023		Extracted ISTD 1802 PFHxS	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047615	Normal
1036893	Water	2023-11-10	B3-3-POST_DAY_5	19/10/2023	PFAS surrogates	(13C4-PFHpa) Surrogate	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047649	Normal
1036893	Water	2023-11-10	B3-3-POST_DAY_5	19/10/2023		Extracted ISTD 1802 PFHxS	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047649	Normal
1036893	Water	2023-11-13	B1-3-POST_DAY_8	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047582	Normal
1036893	Water	2023-11-13	B2-1-POST_DAY_9	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047602	Normal
1036893	Water	2023-11-13	B2-1-POST_DAY_9	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047602	Normal
1036893	Water	2023-11-13	B2-3-POST_DAY_8	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047617	Normal
1036893	Water	2023-11-13	B3-3-POST_DAY_9	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047653	Normal
1036893	Water	2023-11-13	B3-3-POST_DAY_9	19/10/2023		Extracted ISTD 1802 PFHxS	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047653	Normal
1036893	Water	2023-11-14	B1-1-POST_DAY_10	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047568	Normal
1036893	Water	2023-11-14	B3-1-POST_DAY_10	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047638	Normal
1036893	Water	2023-11-14	B3-3-POST_DAY_7	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)	85	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047651	Normal
1036504	Soil	2023-10-30	B1-2	16/10/2023	PFAS surrogates	13C6-PFDA (surr.)	98	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044707	Normal
1036504	Water	2023-10-30	B1-2	16/10/2023		13C8 PFOS	80	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044709	Normal
1036504	Soil	2023-10-26	B1-3	16/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044711	Normal
1036504	Soil	2023-10-30	B1-3	16/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044710	Normal
1036504	Soil	2023-10-26	B2-3	16/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044723	Normal
1036504	Water	2023-10-30	B2-3	16/10/2023	PFAS surrogates	13C5-PFNA (surr.)	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044724	Normal
1036504	Soil	2023-10-26	B2-4	16/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044726	Normal
1036504	Soil	2023-10-26	B2-4	16/10/2023	PFAS surrogates	(13C4-PFHpa) Surrogate	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044726	Normal
1030176	Soil	2023-10-06	BT-2-0-3	28/09/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067077	Normal
1030176	Soil	2023-10-11	BT-2-0-3	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067078	Normal
1030176	Soil	2023-10-11	BT-4-0-3	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067116	Normal
1030176	Water	2023-10-06	BT-2-0-2	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067076	Normal
1030176	Water	2023-10-06	BT-2-3-3	28/09/2023	PFAS surrogates	13C5-PFHxa (surr.)	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067085	Normal
1030176	Water	2023-10-06	BT-2-5-2	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067087	Normal
1030176	Water	2023-10-06	BT-2-5-2	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067087	Normal
1030176	Water	2023-10-06	BT-3-0-2	28/09/2023	PFAS surrogates	13C8-PFOA	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067095	Normal
1030176	Water	2023-10-06	BT-3-0-3	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067098	Normal
1030176	Water	2023-10-06	BT-3-3-1	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067102	Normal
1030176	Water	2023-10-06	BT-3-3-1	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067102	Normal
1030176	Water	2023-10-06	BT-4-3-3	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067123	Normal
1030176	Water	2023-10-06	BT-4-5-3	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067126	Normal
1030176	Water	2023-10-10	BT-1-5-2	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068	Normal
1036504	Soil	2023-10-26	B2-4	16/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044726	Normal
1036504	Soil	2023-10-26	B2-6	17/10/2023	PFAS surrogates	13C8-FOSA (surr.)	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044746	Normal
1036504	Soil	2023-10-30	B3-1	16/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044728	Normal
1036504	Soil	2023-10-30	B3-3	16/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044734	Normal
1036504	Soil	2023-10-30	B3-3	16/10/2023	PFAS surrogates	13C5-PFNA (surr.)	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044734	Normal
1036504	Soil	2023-10-26	B3-4	16/10/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044738	Normal
1036504	Soil	2023-10-26	B3-4	16/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044738	Normal
1036504	Soil	2023-10-30	QC03	17/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044748	Field_D
1026894	Soil	2023-09-20	S006	15/09/2023		Extracted ISTD 1802 PFHxS	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039315	Normal
1026894	Soil	2023-09-20	S008	15/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039316	Normal
1026894	Water	2023-09-20	TRIP BLANK	15/09/2023	Surrogate	4-Bromofluorobenzene	86	50	150	USEPA SW846 8260	B23-Se0040156	Trip_B
1026894	Water	2023-09-20	W002	15/09/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039304	Normal
1026894	Water	2023-09-20	W002	15/09/2023	PFAS surrogates	13C5-PFHxa (surr.)	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039304	Normal
1026894	Water	2023-09-20	W007	15/09/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039309	Normal
1026894	Water	2023-09-20	W008	15/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310	Normal
1026894	Water	2023-09-20	W009	15/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039311	Normal
1036893	Soil	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047592	Normal
1036893	Soil	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047621	Normal
1036893	Soil	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	86	20	1			

Surrogates

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1036893	Water	2023-11-02	B3-1-POST	19/10/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate		86	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047628	Normal
1036893	Water	2023-11-02	B3-5-POST	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		86	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047660	Normal
1036893	Water	2023-11-02	QC23	19/10/2023	PFAS surrogates	13C8-PFOA		86	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047663	Field_D
1036893	Water	2023-11-02	QC23	19/10/2023		13C8 PFOS		86	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047663	Field_D
1036893	Water	2023-11-09	B1-1-POST_DAY_1	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		86	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047559	Normal
1036893	Water	2023-11-09	B1-1-POST_DAY_1	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		86	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047559	Normal
1036893	Water	2023-11-09	B1-1-POST_DAY_3	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		86	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047561	Normal
1036893	Water	2023-11-09	B1-3-POST_DAY_3	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		86	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047577	Normal
1036893	Water	2023-11-09	B1-3-POST_DAY_3	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		86	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047577	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_3	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		86	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047596	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_4	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		86	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047597	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_2	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		86	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047611	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_3	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		86	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047631	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_1	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		86	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047645	Normal
1036893	Water	2023-11-10	B1-1-POST_DAY_6	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		86	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047564	Normal
1036893	Water	2023-11-10	B1-1-POST_DAY_6	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		86	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047564	Normal
1036893	Water	2023-11-10	B2-1-POST_DAY_5	19/10/2023	PFAS surrogates	13C8-PFOA		86	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047598	Normal
1036893	Water	2023-11-13	B1-3-POST_DAY_8	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		86	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047582	Normal
1036893	Water	2023-11-13	B2-1-POST_DAY_8	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		86	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047601	Normal
1036893	Water	2023-11-14	B3-3-POST_DAY_10	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		86	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047654	Normal
1036893	Water	2023-11-14	B3-3-POST_DAY_7	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		86	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047651	Normal
1036504	Soil	2023-10-26	B1-1	16/10/2023	PFAS surrogates	13C6-PFDA (surr.)		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044705	Normal
1036504	Soil	2023-10-26	B1-1	16/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044705	Normal
1036504	Soil	2023-10-30	B1-1	16/10/2023		Extracted ISTD 1802 PFHxS		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044704	Normal
1036504	Soil	2023-10-30	B1-2	16/10/2023		13C8 PFOS		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044707	Normal
1036504	Soil	2023-10-26	B1-3	16/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044711	Normal
1036504	Soil	2023-10-30	B2-1	16/10/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044716	Normal
1036504	Soil	2023-10-30	B2-1	16/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044716	Normal
1030176	Soil	2023-10-06	BT-2-0-1	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067071	Normal
1030176	Soil	2023-10-11	BT-1-0-3	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067059	Normal
1030176	Soil	2023-10-11	BT-2-0-3	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067078	Normal
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094	Normal
1030176	Soil	2023-10-11	BT-4-0-3	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067116	Normal
1030176	Water	2023-10-06	BT-2-3-1	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067083	Normal
1030176	Water	2023-10-06	BT-2-3-1	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067083	Normal
1030176	Water	2023-10-06	BT-3-1-1	28/09/2023		13C8 PFOS		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067099	Normal
1030176	Water	2023-10-06	BT-3-1-3	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067101	Normal
1030176	Water	2023-10-06	BT-3-3-2	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067103	Normal
1030176	Water	2023-10-06	BT-4-1-1	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067118	Normal
1036504	Soil	2023-10-30	B2-2	16/10/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044719	Normal
1036504	Water	2023-10-30	B2-2	16/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044721	Normal
1036504	Soil	2023-10-26	B2-6	17/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044746	Normal
1036504	Soil	2023-10-30	B3-2	16/10/2023	PFAS surrogates	13C8-PFOA		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044731	Normal
1036504	Water	2023-10-30	B3-2	16/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044733	Normal
1036504	Water	2023-10-30	B3-3	16/10/2023	PFAS surrogates	13C5-PFNA (surr.)		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044736	Normal
1036504	Soil	2023-10-30	B3-3	16/10/2023		Extracted ISTD 1802 PFHxS		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044734	Normal
1036504	Water	2023-10-30	B3-4	16/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044739	Normal
1036504	Soil	2023-10-30	B3-6	17/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044750	Normal
1036504	Soil	2023-10-30	B3-6	17/10/2023		Extracted ISTD 1802 PFHxS		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044750	Normal
1036504	Soil	2023-10-30	QC05	17/10/2023	PFAS surrogates	13C5-PFNA (surr.)		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044753	Field_D
1026894	Soil	2023-09-20	S006	15/09/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039315	Normal
1026894	Soil	2023-09-20	S006	15/09/2023	PFAS surrogates	13C5-PFNA (surr.)		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039315	Normal
1028097	Soil	2023-09-27	W001	15/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049211	Normal
1028097	Soil	2023-09-27	W001	15/09/2023	PFAS surrogates	13C5-PFNA (surr.)		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049211	Normal
1026894	Water	2023-09-20	W003	15/09/2023		13C8 PFOS		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039305	Normal
1026894	Water	2023-09-20	W007	15/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039309	Normal
1026894	Water	2023-09-20	W008	15/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310	Normal
1036893	Soil	2023-11-02	B1-1-POST	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047557	Normal
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047640	Normal
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023		13C8 PFOS		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047640	Normal
1036893	Soil	2023-11-02	B3-3-POST	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047643	Normal
1036893	Soil	2023-11-02	B3-5-POST	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047659	Normal
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047569	Normal
1036893	Soil	2023-11-06	B1-5-POST	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047588	Normal
1036893	Soil	2023-11-06	B3-1-POST	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047626	Normal
1036893	Soil	2023-11-06	B3-1-POST	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047626	Normal
1036893	Soil	2023-11-06	B3-4-POST	19/10/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047655	Normal
1036893	Water	2023-11-02	B1-4-POST	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047587	Normal
1036893	Water	2023-11-02	B1-5-POST	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047590	Normal
1036893	Water	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047606	Normal
1036893	Water	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	(13C2-PFTEdA) Surrogate		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047622	Normal
1036893	Water	2023-11-02	QC23	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047663	Field_D
1036893	Water	2023-11-09	B1-1-POST_DAY_1	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047559	Normal
1036893	Water	2023-11-09	B1-1-POST_DAY_3	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047561	Normal
1036893	Water	2023-11-09	B1-3-POST_DAY_3	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047577	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_1	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047594	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_4	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047597	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_1	19/10/2023		13C8 PFOS		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B2	

Surrogates														
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type		
1036893	Water	2023-11-13	B3-1-POST_DAY_8	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047636	Normal		
1036893	Water	2023-11-13	B3-1-POST_DAY_9	19/10/2023	PFAS surrogates	13C8-PFOA		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047637	Normal		
1036893	Water	2023-11-13	B3-3-POST_DAY_8	19/10/2023		Extracted ISTD 1802 PFHxS		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047652	Normal		
1036893	Water	2023-11-14	B1-1-POST_DAY_10	19/10/2023		Extracted ISTD 1802 PFHxS		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047568	Normal		
1036893	Water	2023-11-14	B1-3-POST_DAY_7	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047581	Normal		
1036893	Water	2023-11-14	B2-1-POST_DAY_10	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047603	Normal		
1036893	Water	2023-11-14	B3-1-POST_DAY_10	19/10/2023		13C8 PFOS		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047638	Normal		
1036893	Water	2023-11-14	B3-3-POST_DAY_7	19/10/2023	PFAS surrogates	13C8-PFOA		87	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047651	Normal		
1036504	Soil	2023-10-26	B1-1	16/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044705	Normal		
1036504	Soil	2023-10-26	B1-2	16/10/2023		13C8 PFOS		100	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044708	Normal		
1036504	Soil	2023-10-26	B1-4	16/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044714	Normal		
1036504	Soil	2023-10-26	B1-4	16/10/2023		13C8 PFOS		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044714	Normal		
1036504	Soil	2023-10-26	B1-6	16/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044741	Normal		
1036504	Water	2023-10-30	B1-6	16/10/2023		Extracted ISTD 1802 PFHxS		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044742	Normal		
1030176	Soil	2023-10-06	BT-1-0-2	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067055	Normal		
1030176	Soil	2023-10-06	BT-1-0-3	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067058	Normal		
1030176	Soil	2023-10-06	BT-4-0-2	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067112	Normal		
1030176	Soil	2023-10-11	BT-1-0-2	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067056	Normal		
1030176	Soil	2023-10-11	BT-1-0-3	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067059	Normal		
1030176	Soil	2023-10-11	BT-2-0-1	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067072	Normal		
1030176	Soil	2023-10-11	BT-3-0-3	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067097	Normal		
1030176	Water	2023-10-06	BT-2-3-2	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067084	Normal		
1030176	Water	2023-10-06	BT-2-3-2	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067084	Normal		
1030176	Water	2023-10-06	BT-2-3-3	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067085	Normal		
1030176	Water	2023-10-06	BT-3-5-2	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067106	Normal		
1030176	Water	2023-10-06	BT-4-5-2	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067125	Normal		
1030176	Water	2023-10-06	BT-4-5-3	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067126	Normal		
1030176	Water	2023-10-10	BT-1-5-2	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068	Normal		
1030176	Water	2023-10-10	BT-2-1-2	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067081	Normal		
1036504	Soil	2023-10-26	B2-3	16/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044723	Normal		
1036504	Soil	2023-10-26	B3-3	16/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044735	Normal		
1036504	Soil	2023-10-30	B3-4	16/10/2023	PFAS surrogates	13C5-PFNA (surr.)		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044737	Normal		
1036504	Soil	2023-10-26	B3-6	17/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044751	Normal		
1036504	Soil	2023-10-30	QC01	17/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044744	Field_D		
1036504	Soil	2023-10-30	QC01	17/10/2023	PFAS surrogates	13C5-PFNA (surr.)		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044743	Field_D		
1036504	Soil	2023-10-30	QC03	17/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044748	Field_D		
1026894	Soil	2023-09-20	S005	15/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039314	Normal		
1026894	Water	2023-09-20	W001	15/09/2023		Extracted ISTD 1802 PFHxS		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039303	Normal		
1028097	Soil	2023-09-27	W003	15/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049213	Normal		
1026894	Water	2023-09-20	W004	15/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039306	Normal		
1026894	Water	2023-09-20	W004	15/09/2023	Surrogate	4-Bromofluorobenzene		88	50	150 USEPA SW846 8260	B23-Se0039306	Normal		
1026894	Water	2023-09-20	W008	15/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310	Normal		
1026894	Water	2023-09-20	W008	15/09/2023	Surrogate	4-Bromofluorobenzene		88	50	150 USEPA SW846 8260	B23-Se0039310	Normal		
1036893	Soil	2023-11-02	B1-4-POST	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047586	Normal		
1036893	Soil	2023-11-02	B1-4-POST	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047586	Normal		
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047640	Normal		
1036893	Soil	2023-11-06	B1-3-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047572	Normal		
1036893	Soil	2023-11-06	B1-4-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		88	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047585	Normal		
1036893	Soil	2023-11-06	B1-4-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		88	20	130 LTM-ORG- L				

Surrogates													
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type	
1036504	Soil	2023-10-30	B1-1	16/10/2023	PFAS surrogates	13C8 PFOS		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044704	Normal	
1036504	Soil	2023-10-30	B1-1	16/10/2023		13C8-PFOA		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044704	Normal	
1036504	Soil	2023-10-26	B1-2	16/10/2023		13C8-FOSA (surr.)		79	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044708	Normal	
1036504	Water	2023-10-30	B1-2	16/10/2023		13C8-FOSA (surr.)		84	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044709	Normal	
1036504	Soil	2023-10-26	B1-4	16/10/2023		D7-N-MeFOSE (surr.)		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044714	Normal	
1036504	Soil	2023-10-26	B2-2	16/10/2023		(13C2-8:2FTS) Surrogate		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044720	Normal	
1036504	Water	2023-10-30	B2-2	16/10/2023		D3-N-MeFOSA (surr.)		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044721	Normal	
1036504	Water	2023-10-30	B2-3	16/10/2023		(13C2-8:2FTS) Surrogate		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044724	Normal	
1036504	Water	2023-10-30	B2-3	16/10/2023		Extracted ISTD 1802 PFHxS		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044724	Normal	
1036504	Soil	2023-10-26	B2-6	17/10/2023		13C2-10:2 FTSA (surr.)		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044746	Normal	
1036504	Soil	2023-10-26	B3-2	16/10/2023		Extracted ISTD 1802 PFHxS		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044732	Normal	
1036504	Soil	2023-10-26	B3-4	16/10/2023		13C8-FOSA (surr.)		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044738	Normal	
1036504	Soil	2023-10-30	B3-4	16/10/2023		D5-N-EtFOSA (surr.)		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044737	Normal	
1036504	Water	2023-10-30	B3-6	17/10/2023		13C8-PFOA		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044752	Normal	
1036504	Soil	2023-10-30	QC03	17/10/2023		D3-N-MeFOSA (surr.)		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044748	Field_D	
1036504	Soil	2023-10-30	QC05	17/10/2023		D5-N-EtFOSA (surr.)		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044753	Field_D	
1026894	Water	2023-09-20	W006	15/09/2023		D9-N-EtFOSE (surr.)		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039308	Normal	
1036893	Soil	2023-11-02	B1-5-POST	19/10/2023		13C2-10:2 FTSA (surr.)		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047589	Normal	
1036893	Soil	2023-11-02	B1-5-POST	19/10/2023		(13C3-PFBS) Surrogate		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047589	Normal	
1036893	Soil	2023-11-02	B1-5-POST	19/10/2023		D9-N-EtFOSE (surr.)		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047589	Normal	
1036893	Soil	2023-11-02	B2-5-POST	19/10/2023		(13C4-PFHpA) Surrogate		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047624	Normal	
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023		(13C5-PFPeA) Surrogate		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047569	Normal	
1036893	Soil	2023-11-06	B2-1-POST	19/10/2023		13C5-PFNA (surr.)		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047591	Normal	
1036893	Water	2023-11-02	B2-2-POST	19/10/2023		(13C2-6:2FTS) Surrogate		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047606	Normal	
1036893	Water	2023-11-02	B3-1-POST	19/10/2023		13C2-10:2 FTSA (surr.)		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047628	Normal	
1036893	Water	2023-11-02	B3-1-POST	19/10/2023		13C8 PFOS		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047628	Normal	
1036893	Water	2023-11-02	B3-3-POST	19/10/2023		D5-N-EtFOSA (surr.)		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047644	Normal	
1036893	Water	2023-11-02	B3-5-POST	19/10/2023		13C5-PFNA (surr.)		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047660	Normal	
1036893	Water	2023-11-02	QC23	19/10/2023		(13C4-PFHpA) Surrogate		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047663	Field_D	
1036893	Water	2023-11-09	B1-1-POST_DAY_2	19/10/2023		(13C2-8:2FTS) Surrogate		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047560	Normal	
1036893	Water	2023-11-09	B1-1-POST_DAY_3	19/10/2023		13C5-PFNA (surr.)		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047561	Normal	
1036893	Water	2023-11-09	B1-3-POST_DAY_2	19/10/2023		(13C4-PFBA) Surrogate		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047576	Normal	
1036893	Water	2023-11-09	B1-3-POST_DAY_2	19/10/2023		13C5-PFHxA (surr.)		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047576	Normal	
1036893	Water	2023-11-09	B1-3-POST_DAY_3	19/10/2023		(13C2-8:2FTS) Surrogate		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047577	Normal	
1036893	Water	2023-11-09	B1-3-POST_DAY_3	19/10/2023		13C5-PFNA (surr.)		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047577	Normal	
1036893	Water	2023-11-09	B1-3-POST_DAY_4	19/10/2023		D5-N-EtFOSAA (surr.)		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047578	Normal	
1036893	Water	2023-11-09	B2-1-POST_DAY_4	19/10/2023		13C8-FOSA (surr.)		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047597	Normal	
1036893	Water	2023-11-09	B2-1-POST_DAY_4	19/10/2023		D7-N-MeFOSE (surr.)		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047597	Normal	
1036893	Water	2023-11-09	B2-3-POST_DAY_4	19/10/2023		D9-N-EtFOSE (surr.)		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047613	Normal	
1036893	Water	2023-11-09	B3-1-POST_DAY_3	19/10/2023		(13C4-PFBA) Surrogate		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047631	Normal	
1036893	Water	2023-11-09	B3-3-POST_DAY_3	19/10/2023		13C2-PFUnDA (surr.)		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047647	Normal	
1036893	Water	2023-11-10	B1-1-POST_DAY_6	19/10/2023		D5-N-EtFOSAA (surr.)		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047564	Normal	
1036893	Water	2023-11-10	B2-1-POST_DAY_6	19/10/2023		(13C2-PFTeDA) Surrogate		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047599	Normal	
1036893	Water	2023-11-10	B2-3-POST_DAY_6	19/10/2023		(13C4-PFBA) Surrogate		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047615	Normal	
1036893	Water	2023-11-13	B1-3-POST_DAY_8	19/10/2023		(13C2-6:2FTS) Surrogate		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047582	Normal	
1036893	Water	2023-11-13	B2-1-POST_DAY_8	19/10/2023		13C8-FOSA (surr.)		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047601	Normal	
1036893	Water	2023-11-13	B3-1-POST_DAY_8	19/10/2023		13C5-PFNA (surr.)		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047636	Normal	
1036893	Water	2023-11-13	B3-1-POST_DAY_8	19/10/2023		13C6-PFDA (surr.)		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047636	Normal	
1036893	Water	2023-11-13	B3-3-POST_DAY_8	19/10/2023		13C2-10:2 FTSA (surr.)		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047652	Normal	
1036893	Water	2023-11-14	B1-1-POST_DAY_10	19/10/2023		13C5-PFHxA (surr.)		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047568	Normal	
1036893	Water	2023-11-14	B1-1-POST_DAY_10	19/10/2023		(13C5-PFPeA) Surrogate		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047568	Normal	
1036893	Water	2023-11-14	B2-1-POST_DAY_10	19/10/2023		13C5-PFHxA (surr.)		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047603	Normal	
1036893	Water	2023-11-14	B3-3-POST_DAY_7	19/10/2023		13C8-FOSA (surr.)		89	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047651	Normal	
1036504	Soil	2023-10-30	B1-3	16/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044710	Normal	
1036504	Soil	2023-10-26	B1-3	16/10/2023		(13C5-PFPeA) Surrogate		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044711	Normal	
1036504	Soil	2023-10-26	B1-4	16/10/2023		13C2-PFUnDA (surr.)		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044714	Normal	
1036504	Soil	2023-10-30	B1-4	16/10/2023	13C5-PFNA (surr.)		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044713	Normal		
1030176	Soil	2023-10-11	BT-4-0-1	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067110	Normal	
1030176	Water	2023-10-06	BT-2-0-1	28/09/2023		(13C3-PFBS) Surrogate		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067073	Normal	
1030176	Water	2023-10-06	BT-2-1-1	28/09/2023		(13C2-PFTeDA) Surrogate		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067080	Normal	
1030176	Water	2023-10-06	BT-2-3-1	28/09/2023	PFAS surrogates	13C8 PFOS		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067083	Normal	
1030176	Water	2023-10-06	BT-3-3-2	28/09/2023		(13C4-PFHpA) Surrogate		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067103	Normal	
1030176	Water	2023-10-06	BT-3-5-1	28/09/2023		(13C2-8:2FTS) Surrogate		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067105	Normal	
1030176	Water	2023-10-06	BT-3-5-1	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067105	Normal	
1030176	Water	2023-10-06	BT-3-5-2	28/09/2023		13C2-PFDoDA (surr.)		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067106	Normal	
1030176	Water	2023-10-06	BT-4-0-2	28/09/2023		(13C2-8:2FTS) Surrogate		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067114	Normal	
1030176	Water	2023-10-06	BT-4-0-2	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067114	Normal	
1030176	Water	2023-10-06	BT-4-1-1	28/09/2023		13C8-FOSA (surr.)		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067118	Normal	
1030176	Water	2023-10-06	BT-4-1-2	28/09/2023		13C8 PFOS		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067119	Normal	
1030176	Water	2023-10-06	BT-4-3-2	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067122	Normal	
1030176	Water	2023-10-06	BT-4-5-1	28/09/2023		D9-N-EtFOSE (surr.)		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067124	Normal	
1030176	Water	2023-10-06	BT-4-5-3	28/09/2023		13C8-PFOA		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067126	Normal	
1030176	Water	2023-10-											

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1036893	Soil	2023-11-06	B2-5-POST	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047623	Normal
1036893	Soil	2023-11-06	B3-1-POST	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047626	Normal
1036893	Water	2023-11-02	B1-3-POST	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047574	Normal
1036893	Water	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047641	Normal
1036893	Water	2023-11-09	B1-1-POST_DAY_2	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047560	Normal
1036893	Water	2023-11-09	B1-1-POST_DAY_4	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047562	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_1	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047594	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_1	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047645	Normal
1036893	Water	2023-11-10	B1-3-POST_DAY_6	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047580	Normal
1036893	Water	2023-11-10	B3-3-POST_DAY_5	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047649	Normal
1036893	Water	2023-11-10	B3-3-POST_DAY_6	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047650	Normal
1036893	Water	2023-11-13	B1-1-POST_DAY_8	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047566	Normal
1036893	Water	2023-11-13	B1-3-POST_DAY_8	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047582	Normal
1036893	Water	2023-11-13	B1-3-POST_DAY_9	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047583	Normal
1036893	Water	2023-11-13	B2-3-POST_DAY_8	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047617	Normal
1036893	Water	2023-11-13	B2-3-POST_DAY_8	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047617	Normal
1036893	Water	2023-11-13	B2-3-POST_DAY_8	19/10/2023		Extracted ISTD 1802 PFHxS		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047617	Normal
1036893	Water	2023-11-13	B3-1-POST_DAY_8	19/10/2023		13C8 PFOS		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047636	Normal
1036893	Water	2023-11-13	B3-3-POST_DAY_8	19/10/2023		13C8 PFOS		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047652	Normal
1036893	Water	2023-11-14	B2-3-POST_DAY_10	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047619	Normal
1036893	Water	2023-11-14	B2-3-POST_DAY_10	19/10/2023	PFAS surrogates	13C8-PFOA		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047619	Normal
1036893	Water	2023-11-14	B3-1-POST_DAY_7	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		90	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047635	Normal
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067052	Normal
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067052	Normal
1030176	Soil	2023-10-06	BT-1-0-2	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067055	Normal
1030176	Soil	2023-10-06	BT-1-0-2	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067055	Normal
1030176	Soil	2023-10-06	BT-3-0-2	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067093	Normal
1030176	Soil	2023-10-06	BT-3-0-3	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067096	Normal
1030176	Soil	2023-10-06	BT-4-0-2	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067112	Normal
1030176	Soil	2023-10-11	BT-1-0-1	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067053	Normal
1030176	Soil	2023-10-11	BT-2-0-1	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067072	Normal
1030176	Soil	2023-10-11	BT-4-0-1	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067110	Normal
1030176	Soil	2023-10-11	BT-4-0-3	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067116	Normal
1030176	Water	2023-10-06	BT-1-0-1	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054	Normal
1030176	Water	2023-10-06	BT-2-0-1	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067073	Normal
1030176	Water	2023-10-06	BT-2-3-1	28/09/2023		Extracted ISTD 1802 PFHxS		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067083	Normal
1030176	Water	2023-10-06	BT-2-5-2	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067087	Normal
1030176	Water	2023-10-06	BT-3-1-3	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067101	Normal
1030176	Water	2023-10-06	BT-3-3-1	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067102	Normal
1030176	Water	2023-10-06	BT-4-0-1	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067111	Normal
1030176	Water	2023-10-06	BT-4-1-2	28/09/2023		Extracted ISTD 1802 PFHxS		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067119	Normal
1030176	Water	2023-10-06	BT-4-5-3	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067126	Normal
1030176	Water	2023-10-06	BT-4-5-3	28/09/2023		13C8 PFOS		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067126	Normal
1030176	Water	2023-10-06	BT-4-5-3	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067126	Normal
1030176	Water	2023-10-10	BT-1-5-3	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067069	Normal
1036504	Soil	2023-10-30	B1-2	16/10/2023	PFAS surrogates	13C8-PFOA		77	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044707	Normal
1036504	Soil	2023-10-26	B1-4	16/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044714	Normal
1036504	Soil	2023-10-26	B1-6	16/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044741	Normal
1036504	Soil	2023-10-26	B2-1	16/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044717	Normal
1036504	Soil	2023-10-30	B2-3	16/10/2023	PFAS surrogates	13C6-PFDA (surr.)		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044722	Normal
1036504	Soil	2023-10-26	B2-3	16/10/2023		13C8 PFOS		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044723	Normal
1036504	Water	2023-10-30	B2-3	16/10/2023	PFAS surrogates	13C8-PFOA		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044724	Normal
1036504	Soil	2023-10-26	B2-4	16/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044726	Normal
1036504	Soil	2023-10-26	B3-1	16/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044729	Normal
1036504	Soil	2023-10-26	B3-1	16/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044729	Normal
1036504	Soil	2023-10-30	B3-1	16/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044728	Normal
1036504	Soil	2023-10-26	B3-4	16/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044738	Normal
1036504	Soil	2023-10-26	B3-4	16/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044738	Normal
1036893	Soil	2023-11-02	B1-4-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047586	Normal
1036893	Soil	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047624	Normal
1036893	Soil	2023-11-02	B3-1-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047627	Normal
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047640	Normal
1036893	Soil	2023-11-02	B3-3-POST	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047643	Normal
1036893	Soil	2023-11-06	B1-1-POST	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047556	Normal
1036893	Soil	2023-11-06	B1-4-POST	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047585	Normal
1036893	Soil	2023-11-06	B1-5-POST	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047588	Normal
1036893	Soil	2023-11-06	B2-1-POST	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047591	Normal
1036893	Soil	2023-11-06	B2-2-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047604	Normal
1036893	Soil	2023-11-06	B2-4-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047620	Normal
1036893	Soil	2023-11-06	B3-1-POST	19/10/2023		13C8 PFOS		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047626	Normal
1036893	Soil	2023-11-06	B3-5-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047658	Normal
1036893	Water	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047593	Normal
1036893	Water	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047593	Normal
1036893	Water	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047625	Normal
1036893	Water	2023-11-02	B3-5-POST	19/10/2023		13C8 PFOS		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047660	Normal
1036893	Water	2023-11-09	B1-1-POST_DAY_2	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047560	Normal
1036893	Water	2023-11-09	B1-1-POST_DAY_2	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		91	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047560	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_1	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		91	2			

Surrogates													
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type	
1036504	Soil	2023-10-30	B1-3	16/10/2023	PFAS surrogates	Extracted ISTD 1802 PFHxS		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044710	Normal	
1036504	Soil	2023-10-26	B1-4	16/10/2023		(13C2-8:2FTS) Surrogate		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044714	Normal	
1036504	Soil	2023-10-30	B1-4	16/10/2023		13C6-PFDA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044713	Normal	
1036504	Soil	2023-10-30	B1-4	16/10/2023	PFAS surrogates	13C8 PFOS		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044713	Normal	
1036504	Soil	2023-10-26	B1-6	16/10/2023		13C2-10:2 FTSA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044741	Normal	
1036504	Soil	2023-10-30	B1-6	16/10/2023		13C5-PFNA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044740	Normal	
1030176	Soil	2023-10-06	BT-2-0-3	28/09/2023	PFAS surrogates	Extracted ISTD 1802 PFHxS		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067077	Normal	
1030176	Soil	2023-10-06	BT-4-0-2	28/09/2023		Extracted ISTD 1802 PFHxS		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067112	Normal	
1030176	Soil	2023-10-11	BT-1-0-2	28/09/2023		(13C3-PFBS) Surrogate		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067056	Normal	
1030176	Soil	2023-10-11	BT-2-0-2	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067075	Normal	
1030176	Soil	2023-10-11	BT-2-0-2	28/09/2023		Extracted ISTD 1802 PFHxS		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067075	Normal	
1030176	Soil	2023-10-11	BT-4-0-1	28/09/2023		13C5-PFHxA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067110	Normal	
1030176	Soil	2023-10-11	BT-4-0-1	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067110	Normal	
1030176	Water	2023-10-06	BT-2-5-1	28/09/2023		(13C2-8:2FTS) Surrogate		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067086	Normal	
1030176	Water	2023-10-06	BT-2-5-3	28/09/2023		Extracted ISTD 1802 PFHxS		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067088	Normal	
1030176	Water	2023-10-06	BT-3-0-1	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067092	Normal	
1030176	Water	2023-10-06	BT-3-5-1	28/09/2023		(13C2-PFTeDA) Surrogate		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067105	Normal	
1030176	Water	2023-10-06	BT-3-5-3	28/09/2023		Extracted ISTD 1802 PFHxS		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067107	Normal	
1030176	Water	2023-10-06	BT-4-0-2	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067114	Normal	
1030176	Water	2023-10-06	BT-4-0-3	28/09/2023		D5-N-EtFOSAA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067117	Normal	
1030176	Water	2023-10-06	BT-4-1-1	28/09/2023		D3-N-MeFOSAA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067118	Normal	
1030176	Water	2023-10-06	BT-4-3-1	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067121	Normal	
1030176	Water	2023-10-06	BT-4-5-3	28/09/2023		(13C2-8:2FTS) Surrogate		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067126	Normal	
1036504	Soil	2023-10-26	B2-3	16/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044723	Normal	
1036504	Soil	2023-10-26	B2-6	17/10/2023		13C8 PFOS		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044746	Normal	
1036504	Soil	2023-10-26	B3-1	16/10/2023		(13C2-8:2FTS) Surrogate		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044729	Normal	
1036504	Soil	2023-10-26	B3-3	16/10/2023	PFAS surrogates	Extracted ISTD 1802 PFHxS		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044735	Normal	
1036504	Soil	2023-10-30	B3-6	17/10/2023		13C2-PFDoDA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044750	Normal	
1036504	Soil	2023-10-30	QC03	17/10/2023		13C2-10:2 FTSA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044748	Field_D	
1026894	Soil	2023-09-20	S001	15/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039313	Normal	
1026894	Water	2023-09-20	W002	15/09/2023		4-Bromofluorobenzene		92	50	150 USEPA SW846 8260	B23-Se0039304	Normal	
1026894	Water	2023-09-20	W002	15/09/2023		D7-N-MeFOSE (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039304	Normal	
1026894	Water	2023-09-20	W004	15/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039306	Normal	
1026894	Water	2023-09-20	W006	15/09/2023		4-Bromofluorobenzene		92	50	150 USEPA SW846 8260	B23-Se0039308	Normal	
1026894	Water	2023-09-20	W007	15/09/2023		D3-N-MeFOSA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039309	Normal	
1026894	Water	2023-09-20	W009	15/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039311	Normal	
1036893	Soil	2023-11-02	B1-1-POST	19/10/2023		(13C4-PFHpA) Surrogate		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047557	Normal	
1036893	Soil	2023-11-02	B1-4-POST	19/10/2023		D3-N-MeFOSAA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047586	Normal	
1036893	Soil	2023-11-02	B1-4-POST	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047586	Normal	
1036893	Soil	2023-11-02	B3-3-POST	19/10/2023		13C2-PFUnDA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047643	Normal	
1036893	Soil	2023-11-06	B1-1-POST	19/10/2023		(13C3-PFBS) Surrogate		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047556	Normal	
1036893	Soil	2023-11-06	B1-5-POST	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047588	Normal	
1036893	Soil	2023-11-06	B2-2-POST	19/10/2023		13C5-PFHxA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047604	Normal	
1036893	Soil	2023-11-06	B2-5-POST	19/10/2023		(13C4-PFHpA) Surrogate		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047623	Normal	
1036893	Soil	2023-11-06	B3-1-POST	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047626	Normal	
1036893	Soil	2023-11-06	B3-5-POST	19/10/2023		(13C4-PFBA) Surrogate		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047658	Normal	
1036893	Water	2023-11-02	B1-3-POST	19/10/2023		(13C4-PFHpA) Surrogate		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047574	Normal	
1036893	Water	2023-11-02	B3-1-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047628	Normal	
1036893	Water	2023-11-02	B3-2-POST	19/10/2023		(13C2-8:2FTS) Surrogate		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047641	Normal	
1036893	Water	2023-11-02	B3-3-POST	19/10/2023		(13C2-PFTeDA) Surrogate		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047644	Normal	
1036893	Water	2023-11-02	B3-3-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047644	Normal	
1036893	Water	2023-11-02	B3-5-POST	19/10/2023		13C5-PFHxA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047660	Normal	
1036893	Water	2023-11-02	QC23	19/10/2023		13C5-PFNA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047663	Field_D	
1036893	Water	2023-11-09	B1-1-POST_DAY_2	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047560	Normal	
1036893	Water	2023-11-09	B1-1-POST_DAY_3	19/10/2023		13C8 PFOS		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047561	Normal	
1036893	Water	2023-11-09	B1-3-POST_DAY_1	19/10/2023		(13C2-8:2FTS) Surrogate		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047575	Normal	
1036893	Water	2023-11-09	B1-3-POST_DAY_2	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047576	Normal	
1036893	Water	2023-11-09	B2-1-POST_DAY_4	19/10/2023		13C5-PFHxA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047597	Normal	
1036893	Water	2023-11-09	B3-1-POST_DAY_3	19/10/2023		13C5-PFHxA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047631	Normal	
1036893	Water	2023-11-09	B3-1-POST_DAY_4	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047632	Normal	
1036893	Water	2023-11-09	B3-3-POST_DAY_2	19/10/2023		13C2-PFDoDA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047646	Normal	
1036893	Water	2023-11-09	B3-3-POST_DAY_2	19/10/2023		13C2-PFUnDA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047646	Normal	
1036893	Water	2023-11-10	B2-1-POST_DAY_5	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047598	Normal	
1036893	Water	2023-11-10	B2-3-POST_DAY_6	19/10/2023		13C2-10:2 FTSA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047615	Normal	
1036893	Water	2023-11-10	B3-3-POST_DAY_6	19/10/2023		13C2-PFUnDA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047650	Normal	
1036893	Water	2023-11-13	B1-1-POST_DAY_9	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047567	Normal	
1036893	Water	2023-11-13	B2-1-POST_DAY_9	19/10/2023		(13C3-PFBS) Surrogate		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047602	Normal	
1036893	Water	2023-11-13	B2-1-POST_DAY_9	19/10/2023		13C8-FOSA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047602	Normal	
1036893	Water	2023-11-14	B1-1-POST_DAY_7	19/10/2023	PFAS surrogates	Extracted ISTD 1802 PFHxS		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047602	Normal	
1036504	Soil	2023-10-26	B1-1	16/10/2023		D3-N-MeFOSAA (surr.)		92	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047565	Normal	
1036504	Soil	2023-13											

Surrogates

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1036504	Soil	2023-10-30	B3-3	16/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044734	Normal
1036504	Water	2023-10-30	B3-4	16/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044739	Normal
1036504	Soil	2023-10-26	B3-6	17/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044751	Normal
1036504	Soil	2023-10-30	B3-6	17/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044750	Normal
1036504	Soil	2023-10-30	QC01	17/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044744	Field_D
1036504	Soil	2023-10-30	QC05	17/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044753	Field_D
1036504	Soil	2023-10-30	QC05	17/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044753	Field_D
1026894	Water	2023-09-20	W003	15/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039305	Normal
1026894	Water	2023-09-20	W006	15/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039308	Normal
1026894	Water	2023-09-20	W007	15/09/2023	Surrogate	4-Bromofluorobenzene	93	50	150	USEPA SW846 8260	B23-Se0039309	Normal
1036893	Soil	2023-11-02	B1-4-POST	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047586	Normal
1036893	Soil	2023-11-02	B1-5-POST	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047589	Normal
1036893	Soil	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047592	Normal
1036893	Soil	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047605	Normal
1036893	Soil	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047624	Normal
1036893	Soil	2023-11-02	B3-1-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047627	Normal
1036893	Soil	2023-11-06	B1-3-POST	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047572	Normal
1036893	Soil	2023-11-06	B1-3-POST	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047572	Normal
1036893	Soil	2023-11-06	B2-3-POST	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047607	Normal
1036893	Soil	2023-11-06	B3-3-POST	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047642	Normal
1036893	Water	2023-11-02	B1-1-POST	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047558	Normal
1036893	Water	2023-11-02	B1-3-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047574	Normal
1036893	Water	2023-11-02	B1-4-POST	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047587	Normal
1036893	Water	2023-11-02	B2-2-POST	19/10/2023		13C8 PFOS	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047606	Normal
1036893	Water	2023-11-09	B1-1-POST_DAY_2	19/10/2023		13C8 PFOS	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047560	Normal
1036893	Water	2023-11-09	B1-3-POST_DAY_1	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047575	Normal
1036893	Water	2023-11-09	B1-3-POST_DAY_4	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047578	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_1	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047629	Normal
1036893	Water	2023-11-10	B1-1-POST_DAY_5	19/10/2023		13C8 PFOS	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047563	Normal
1036893	Water	2023-11-10	B2-3-POST_DAY_6	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047615	Normal
1036893	Water	2023-11-10	B2-3-POST_DAY_6	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047615	Normal
1036893	Water	2023-11-10	B3-1-POST_DAY_5	19/10/2023		Extracted ISTD 1802 PFHxS	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047633	Normal
1036893	Water	2023-11-13	B1-1-POST_DAY_9	19/10/2023		Extracted ISTD 1802 PFHxS	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047567	Normal
1036893	Water	2023-11-13	B1-3-POST_DAY_8	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047582	Normal
1036893	Water	2023-11-13	B2-1-POST_DAY_8	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047601	Normal
1036893	Water	2023-11-13	B3-1-POST_DAY_8	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047636	Normal
1036893	Water	2023-11-14	B1-1-POST_DAY_7	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047565	Normal
1036893	Water	2023-11-14	B1-1-POST_DAY_7	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047565	Normal
1036893	Water	2023-11-14	B2-3-POST_DAY_10	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047619	Normal
1036893	Water	2023-11-14	B2-3-POST_DAY_10	19/10/2023		13C8 PFOS	93	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047619	Normal
1036504	Soil	2023-10-26	B1-1	16/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044705	Normal
1036504	Soil	2023-10-30	B1-1	16/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044704	Normal
1036504	Soil	2023-10-26	B1-3	16/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044711	Normal
1036504	Soil	2023-10-26	B1-6	16/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044741	Normal
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023		Extracted ISTD 1802 PFHxS	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067052	Normal
1030176	Soil	2023-10-06	BT-2-0-3	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067077	Normal
1030176	Soil	2023-10-11	BT-1-0-2	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067056	Normal
1030176	Soil	2023-10-11	BT-1-0-2	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067056	Normal
1030176	Soil	2023-10-11	BT-1-0-2	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067056	Normal
1030176	Soil	2023-10-11	BT-1-0-2	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067056	Normal
1030176	Soil	2023-10-11	BT-1-0-2	28/09/2023	PFAS surrogates	13C8-PFOA	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067056	Normal
1030176	Soil	2023-10-11	BT-1-0-2	28/09/2023		13C8 PFOS	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067056	Normal
1030176	Soil	2023-10-11	BT-1-0-2	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067056	Normal
1030176	Soil	2023-10-11	BT-2-0-2	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067075	Normal
1030176	Soil	2023-10-11	BT-2-0-3	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067078	Normal
1030176	Soil	2023-10-11	BT-3-0-1	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067091	Normal
1030176	Water	2023-10-06	BT-1-0-1	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054	Normal
1030176	Water	2023-10-06	BT-1-1-3	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067063	Normal
1030176	Water	2023-10-06	BT-1-5-1	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067067	Normal
1030176	Water	2023-10-06	BT-2-0-2	28/09/2023		Extracted ISTD 1802 PFHxS	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067076	Normal
1030176	Water	2023-10-06	BT-2-5-1	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067086	Normal
1030176	Water	2023-10-06	BT-2-5-3	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067088	Normal
1030176	Water	2023-10-06	BT-2-5-3	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067088	Normal
1030176	Water	2023-10-06	BT-3-1-1	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067099	Normal
1030176	Water	2023-10-06	BT-4-1-1	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067118	Normal
1030176	Water	2023-10-06	BT-4-1-3	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067120	Normal
1030176	Water	2023-10-06	BT-4-3-1	28/09/2023		13C8 PFOS	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067121	Normal
1030176	Water	2023-10-06	BT-4-3-2	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067122	Normal
1030176	Water	2023-10-06	BT-4-5-3	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067126	Normal
1036504	Soil	2023-10-30	B2-4	16/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044725	Normal
1036504	Soil	2023-10-26	B3-1	16/10/2023	PFAS surrogates	13C5-PFHxA (surr.)	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044729	Normal
1036504	Soil	2023-10-26	B3-4	16/10/2023	PFAS surrogates	13C6-PFDA (surr.)	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044738	Normal
1036504	Water	2023-10-30	B3-6	17/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044752	Normal
1036504	Soil	2023-10-30	QC05	17/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044753	Field_D
1036504	Soil	2023-10-30	QC05	17/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	94	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044753	Field_D
EB2332809	Soil	2023-10-27	QC06	17/10/2023 17:55	PFAS surrogates	13C8-PFOA	94	78.1	131	EP231S: PFAS Surrogate	EB2332809003	Interlab_D
1026894	Soil	2023-09-20	S001	15/09/2023	PFAS surrogates	D5-N-EtFOSAA (						

Surrogates													
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type	
1036893	Soil	2023-11-06	B3-1-POST	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		94	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047626	Normal	
1036893	Soil	2023-11-06	B3-3-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		94	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047642	Normal	
1036893	Soil	2023-11-06	B3-4-POST	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		94	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047655	Normal	
1036893	Water	2023-11-02	B1-5-POST	19/10/2023		13C8 PFOS		94	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047590	Normal	
1036893	Water	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		94	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047622	Normal	
1036893	Water	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		94	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047625	Normal	
1036893	Water	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		94	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047625	Normal	
1036893	Water	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		94	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047641	Normal	
1036893	Water	2023-11-02	B3-3-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		94	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047644	Normal	
1036893	Water	2023-11-02	B3-4-POST	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		94	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047657	Normal	
1036893	Water	2023-11-09	B2-1-POST_DAY_1	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		94	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047594	Normal	
1036893	Water	2023-11-09	B2-1-POST_DAY_2	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		94	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047595	Normal	
1036893	Water	2023-11-09	B2-1-POST_DAY_3	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		94	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047596	Normal	
1036893	Water	2023-11-09	B3-1-POST_DAY_2	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		94	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047630	Normal	
1036893	Water	2023-11-09	B3-3-POST_DAY_1	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		94	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047645	Normal	
1036893	Water	2023-11-10	B1-1-POST_DAY_5	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		94	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047563	Normal	
1036893	Water	2023-11-10	B1-1-POST_DAY_5	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		94	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047633	Normal	
1036893	Water	2023-11-13	B2-1-POST_DAY_9	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		94	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047602	Normal	
1036893	Water	2023-11-13	B2-3-POST_DAY_9	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		94	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047618	Normal	
1036893	Water	2023-11-13	B2-3-POST_DAY_9	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		94	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047618	Normal	
1036893	Water	2023-11-13	B3-3-POST_DAY_8	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		94	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047652	Normal	
1036893	Water	2023-11-13	B3-3-POST_DAY_8	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		94	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047652	Normal	
1036893	Water	2023-11-13	B3-3-POST_DAY_9	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		94	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047653	Normal	
1036893	Water	2023-11-14	B2-1-POST_DAY_7	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		94	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047600	Normal	
1036893	Water	2023-11-14	B2-3-POST_DAY_7	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		94	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047616	Normal	
1036893	Water	2023-11-14	B2-3-POST_DAY_7	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		94	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047616	Normal	
1036893	Water	2023-11-14	B3-1-POST_DAY_10	19/10/2023	PFAS surrogates	13C8-PFOA		94	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047638	Normal	
1036893	Water	2023-11-14	B3-1-POST_DAY_7	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		94	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047635	Normal	
1036893	Water	2023-11-14	B3-3-POST_DAY_7	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		94	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047651	Normal	
1036893	Water	2023-11-14	B3-3-POST_DAY_7	19/10/2023		Extracted ISTD 1802 PFHxS		94	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047651	Normal	
1026894	Water	2023-09-20	W005	15/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		94	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039307	Normal	
1036504	Soil	2023-10-30	B1-3	16/10/2023	PFAS surrogates	13C8-FOSA (surr.)		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044710	Normal	
1036504	Soil	2023-10-30	B1-3	16/10/2023	PFAS surrogates	13C8-PFOA		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044710	Normal	
1036504	Soil	2023-10-26	B2-3	16/10/2023	PFAS surrogates	13C8-PFOA		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044723	Normal	
1036504	Soil	2023-10-26	B2-4	16/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044726	Normal	
1030176	Soil	2023-10-06	BT-2-0-1	28/09/2023		Extracted ISTD 1802 PFHxS		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067071	Normal	
1030176	Soil	2023-10-06	BT-4-0-3	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067115	Normal	
1030176	Water	2023-10-06	BT-1-0-2	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067057	Normal	
1030176	Water	2023-10-06	BT-1-0-3	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067060	Normal	
1030176	Water	2023-10-06	BT-1-1-1	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067061	Normal	
1030176	Water	2023-10-06	BT-1-5-1	28/09/2023		Extracted ISTD 1802 PFHxS		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067067	Normal	
1030176	Water	2023-10-06	BT-2-0-2	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067076	Normal	
1030176	Water	2023-10-06	BT-2-1-1	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067080	Normal	
1030176	Water	2023-10-06	BT-2-3-2	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067084	Normal	
1030176	Water	2023-10-06	BT-2-5-1	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067086	Normal	
1030176	Water	2023-10-06	BT-2-5-1	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067086	Normal	
1030176	Water	2023-10-06	BT-2-5-3	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067088	Normal	
1030176	Water	2023-10-06	BT-3-3-1	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067102	Normal	
1030176	Water	2023-10-06	BT-3-3-2	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067103	Normal	
1030176	Water	2023-10-06	BT-3-3-3	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067104	Normal	
1030176	Water	2023-10-06	BT-4-0-1	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067111	Normal	
1030176	Water	2023-10-06	BT-4-0-1	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067111	Normal	
1030176	Water	2023-10-06	BT-4-0-3	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067117	Normal	
1030176	Water	2023-10-06	BT-4-3-1	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067121	Normal	
1030176	Water	2023-10-06	BT-4-3-2	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067122	Normal	
1030176	Water	2023-10-06	BT-4-3-3	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067123	Normal	
1030176	Water	2023-10-06	BT-4-3-3	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067123	Normal	
1030176	Water	2023-10-06	BT-4-5-2	28/09/2023		13C8 PFOS		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067125	Normal	
1030176	Water	2023-10-06	BT-4-5-3	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067126	Normal	
1030176	Water	2023-10-10	BT-1-5-2	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068	Normal	
1030176	Water	2023-10-10	BT-1-5-3	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067069	Normal	
1036504	Soil	2023-10-30	B2-4	16/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044725	Normal	
1036504	Soil	2023-10-26	B3-2	16/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044732	Normal	
1036504	Soil	2023-10-26	B3-2	16/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044732	Normal	
1036504	Soil	2023-10-26	B3-3	16/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		95	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044735	Normal	
1036504	Soil	2023-1											

Surrogates												
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1036893	Water	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	95	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047622	Normal
1036893	Water	2023-11-02	B3-3-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	95	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047644	Normal
1036893	Water	2023-11-02	B3-5-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	95	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047660	Normal
1036893	Water	2023-11-09	B1-1-POST_DAY_1	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	95	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047559	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_1	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)	95	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047594	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_1	19/10/2023		13C8 PFOS	95	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047594	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_2	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	95	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047611	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_3	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)	95	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047612	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_4	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)	95	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047613	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_1	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	95	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047629	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_1	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	95	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047645	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_1	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	95	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047645	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_4	19/10/2023	PFAS surrogates	D3-N-MeFOsA (surr.)	95	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047648	Normal
1036893	Water	2023-11-10	B1-1-POST_DAY_5	19/10/2023		Extracted ISTD 1802 PFHxS	95	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047563	Normal
1036893	Water	2023-11-10	B1-3-POST_DAY_6	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)	95	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047580	Normal
1036893	Water	2023-11-10	B1-3-POST_DAY_6	19/10/2023	PFAS surrogates	D5-N-EtFOsA (surr.)	95	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047580	Normal
1036893	Water	2023-11-13	B1-1-POST_DAY_9	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)	95	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047567	Normal
1036893	Water	2023-11-13	B1-3-POST_DAY_9	19/10/2023		13C8 PFOS	95	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047583	Normal
1036893	Water	2023-11-13	B2-3-POST_DAY_9	19/10/2023		Extracted ISTD 1802 PFHxS	95	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047618	Normal
1036893	Water	2023-11-13	B3-3-POST_DAY_8	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	95	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047652	Normal
1036893	Water	2023-11-13	B3-3-POST_DAY_9	19/10/2023	PFAS surrogates	13C8-PFOA	95	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047653	Normal
1036893	Water	2023-11-14	B1-1-POST_DAY_10	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	95	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047568	Normal
1036504	Soil	2023-10-30	B1-1	16/10/2023	PFAS surrogates	13C5-PFNA (surr.)	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044704	Normal
1036504	Soil	2023-10-30	B1-2	16/10/2023	PFAS surrogates	D3-N-MeFOsA (surr.)	91	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044707	Normal
1030176	Soil	2023-10-06	BT-2-0-2	28/09/2023		Extracted ISTD 1802 PFHxS	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067074	Normal
1030176	Soil	2023-10-11	BT-1-0-2	28/09/2023	PFAS surrogates	D5-N-EtFOsA (surr.)	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067056	Normal
1030176	Soil	2023-10-11	BT-1-0-3	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067059	Normal
1030176	Soil	2023-10-11	BT-1-0-3	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067059	Normal
1030176	Soil	2023-10-11	BT-1-0-3	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067059	Normal
1030176	Soil	2023-10-11	BT-1-0-3	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067059	Normal
1030176	Soil	2023-10-11	BT-1-0-3	28/09/2023	PFAS surrogates	13C8-PFOA	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067059	Normal
1030176	Soil	2023-10-11	BT-1-0-3	28/09/2023		13C8 PFOS	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067059	Normal
1030176	Soil	2023-10-11	BT-2-0-1	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067072	Normal
1030176	Soil	2023-10-11	BT-4-0-1	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067110	Normal
1030176	Soil	2023-10-11	BT-4-0-2	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067113	Normal
1030176	Water	2023-10-06	BT-1-0-1	28/09/2023		Extracted ISTD 1802 PFHxS	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054	Normal
1030176	Water	2023-10-06	BT-1-0-2	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067057	Normal
1030176	Water	2023-10-06	BT-1-1-3	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067063	Normal
1030176	Water	2023-10-06	BT-2-3-3	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067085	Normal
1030176	Water	2023-10-06	BT-2-5-3	28/09/2023	PFAS surrogates	13C8-PFOA	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067088	Normal
1030176	Water	2023-10-06	BT-3-1-1	28/09/2023		Extracted ISTD 1802 PFHxS	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067099	Normal
1030176	Water	2023-10-06	BT-4-0-3	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067117	Normal
1030176	Water	2023-10-06	BT-4-3-2	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067122	Normal
1030176	Water	2023-10-06	BT-4-5-1	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067124	Normal
1030176	Water	2023-10-06	BT-4-5-1	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067124	Normal
1030176	Water	2023-10-06	BT-4-5-3	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067126	Normal
1030176	Water	2023-10-06	BT-4-5-3	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067126	Normal
1030176	Water	2023-10-10	BT-1-3-3	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067066	Normal
1030176	Water	2023-10-10	BT-1-3-3	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067066	Normal
1030176	Water	2023-10-10	BT-2-1-2	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067081	Normal
1036504	Soil	2023-10-30	B1-6	16/10/2023		13C8 PFOS	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044740	Normal
1036504	Soil	2023-10-26	B2-6	17/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044746	Normal
1036504	Soil	2023-10-26	B2-6	17/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044746	Normal
1036504	Soil	2023-10-26	B3-4	16/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044738	Normal
1036504	Soil	2023-10-26	B3-6	17/10/2023		13C8 PFOS	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044751	Normal
1036504	Soil	2023-10-30	B3-6	17/10/2023	PFAS surrogates	D3-N-MeFOsA (surr.)	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044750	Normal
1036504	Soil	2023-10-30	QC01	17/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044743	Field_D
1036504	Soil	2023-10-30	QC03	17/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044748	Field_D
1036504	Soil	2023-10-30	QC05	17/10/2023	PFAS surrogates	13C6-PFDA (surr.)	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044753	Field_D
1028097	Soil	2023-09-27	W001	15/09/2023	PFAS surrogates	13C6-PFDA (surr.)	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049211	Normal
1026894	Water	2023-09-20	W009	15/09/2023	Surrogate	4-Bromofluorobenzene	96	50	150	USEPA SW846 8260	B23-Se0039311	Normal
1026894	Water	2023-09-20	W010	15/09/2023	Surrogate	4-Bromofluorobenzene	96	50	150	USEPA SW846 8260	B23-Se0039312	Normal
1036893	Soil	2023-11-02	B1-1-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047557	Normal
1036893	Soil	2023-11-02	B1-1-POST	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047557	Normal
1036893	Soil	2023-11-02	B1-1-POST	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047557	Normal
1036893	Soil	2023-11-02	B1-1-POST	19/10/2023	PFAS surrogates	D5-N-EtFOsA (surr.)	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047557	Normal
1036893	Soil	2023-11-02	B1-5-POST	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047589	Normal
1036893	Soil	2023-11-02	B3-1-POST	19/10/2023	PFAS surrogates	13C8-FOsA (surr.)	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047627	Normal
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	13C8-PFOA	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047640	Normal
1036893	Soil	2023-11-02	B3-3-POST	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047643	Normal
1036893	Soil	2023-11-06	B1-1-POST	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047556	Normal
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047569	Normal
1036893	Soil	2023-11-06	B1-4-POST	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047585	Normal
1036893	Soil	2023-11-06	B1-5-POST	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047588	Normal
1036893	Soil	2023-11-06	B3-3-POST	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047642	Normal
1036893	Soil	2023-11-06	B3-4-POST	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047655	Normal
1036893	Soil	2023-11-06	B3-4-POST	19/10/2023	PFAS surrogates	D3-N-MeFOsA (surr.)	96	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047655	Normal
1036893	Water	2023-11-02	B1-1-POST	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	96	20	130			

Surrogates													
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type	
1036893	Water	2023-11-14	B3-1-POST_DAY_10	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		96	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047638	Normal	
1036504	Soil	2023-10-30	B1-1	16/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044704	Normal	
1036504	Water	2023-10-30	B1-1	16/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044706	Normal	
1036504	Water	2023-10-30	B1-2	16/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		71	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044709	Normal	
1036504	Soil	2023-10-26	B1-4	16/10/2023		Extracted ISTD 1802 PFHxS		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044714	Normal	
1036504	Soil	2023-10-26	B1-6	16/10/2023		Extracted ISTD 1802 PFHxS		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044741	Normal	
1030176	Soil	2023-10-06	BT-2-0-2	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067074	Normal	
1030176	Soil	2023-10-11	BT-1-0-1	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067053	Normal	
1030176	Soil	2023-10-11	BT-1-0-2	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067056	Normal	
1030176	Soil	2023-10-11	BT-2-0-1	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067072	Normal	
1030176	Soil	2023-10-11	BT-2-0-2	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067075	Normal	
1030176	Soil	2023-10-11	BT-2-0-3	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067078	Normal	
1030176	Soil	2023-10-11	BT-2-0-3	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067078	Normal	
1030176	Soil	2023-10-11	BT-3-0-1	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067091	Normal	
1030176	Soil	2023-10-11	BT-3-0-1	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067091	Normal	
1030176	Soil	2023-10-11	BT-4-0-3	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067116	Normal	
1030176	Water	2023-10-06	BT-1-1-1	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067061	Normal	
1030176	Water	2023-10-06	BT-2-0-1	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067073	Normal	
1030176	Water	2023-10-06	BT-3-3-2	28/09/2023		13C8 PFOS		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067103	Normal	
1030176	Water	2023-10-06	BT-3-3-2	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067103	Normal	
1030176	Water	2023-10-06	BT-4-0-1	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067111	Normal	
1030176	Water	2023-10-06	BT-4-3-1	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067121	Normal	
1030176	Water	2023-10-06	BT-4-5-1	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067124	Normal	
1030176	Water	2023-10-10	BT-1-3-3	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067066	Normal	
1036504	Soil	2023-10-26	B2-4	16/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044726	Normal	
1036504	Soil	2023-10-26	B2-4	16/10/2023		Extracted ISTD 1802 PFHxS		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044726	Normal	
1036504	Soil	2023-10-30	B2-6	17/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044745	Normal	
1036504	Soil	2023-10-30	B3-1	16/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044728	Normal	
1036504	Soil	2023-10-26	B3-2	16/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044732	Normal	
1036504	Soil	2023-10-26	B3-3	16/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044735	Normal	
1036504	Soil	2023-10-26	B3-4	16/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044738	Normal	
1036504	Soil	2023-10-30	B3-4	16/10/2023	PFAS surrogates	13C6-PFDA (surr.)		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044737	Normal	
1036504	Soil	2023-10-30	B3-6	17/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044750	Normal	
1026894	Soil	2023-09-20	S008	15/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039316	Normal	
1026894	Water	2023-09-20	W005	15/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039307	Normal	
1026894	Water	2023-09-20	W007	15/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039309	Normal	
1026894	Water	2023-09-20	W008	15/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310	Normal	
1026894	Water	2023-09-20	W009	15/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039311	Normal	
1036893	Soil	2023-11-02	B1-1-POST	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047557	Normal	
1036893	Soil	2023-11-02	B1-4-POST	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047586	Normal	
1036893	Soil	2023-11-02	B1-4-POST	19/10/2023		13C8 PFOS		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047586	Normal	
1036893	Soil	2023-11-02	B1-4-POST	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047586	Normal	
1036893	Soil	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047592	Normal	
1036893	Soil	2023-11-02	B3-3-POST	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047643	Normal	
1036893	Soil	2023-11-02	B3-3-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047643	Normal	
1036893	Soil	2023-11-02	B3-3-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047643	Normal	
1036893	Soil	2023-11-06	B1-5-POST	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047588	Normal	
1036893	Soil	2023-11-06	B2-2-POST	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047604	Normal	
1036893	Soil	2023-11-06	B2-3-POST	19/10/2023		Extracted ISTD 1802 PFHxS		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047607	Normal	
1036893	Soil	2023-11-06	B2-3-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047607	Normal	
1036893	Soil	2023-11-06	B2-4-POST	19/10/2023	PFAS surrogates	13C8-PFOA		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047620	Normal	
1036893	Soil	2023-11-06	B3-1-POST	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047626	Normal	
1036893	Soil	2023-11-06	B3-4-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047655	Normal	
1036893	Soil	2023-11-06	B3-5-POST	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047658	Normal	
1036893	Water	2023-11-02	B1-2-POST	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047571	Normal	
1036893	Water	2023-11-02	B1-4-POST	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047587	Normal	
1036893	Water	2023-11-02	B2-3-POST	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047609	Normal	
1036893	Water	2023-11-02	B2-3-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047609	Normal	
1036893	Water	2023-11-02	B3-5-POST	19/10/2023		Extracted ISTD 1802 PFHxS		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047660	Normal	
1036893	Water	2023-11-02	QC23	19/10/2023		Extracted ISTD 1802 PFHxS		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047663	Field_D	
1036893	Water	2023-11-09	B1-1-POST_DAY_1	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047559	Normal	
1036893	Water	2023-11-09	B1-1-POST_DAY_4	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047562	Normal	
1036893	Water	2023-11-09	B1-3-POST_DAY_1	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047575	Normal	
1036893	Water	2023-11-09	B2-1-POST_DAY_4	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047597	Normal	
1036893	Water	2023-11-09	B2-3-POST_DAY_3	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		97	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047612	Normal	
1036893	Water	2023-11-09	B3-3-POST_DAY_2	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		97	20	130			

Surrogates

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1030176	Water	2023-10-06	BT-1-5-1	28/09/2023	PFAS surrogates	13C5-PFHx _A (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067067	Normal
1030176	Water	2023-10-06	BT-2-0-1	28/09/2023	PFAS surrogates	13C8-PFOS		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067073	Normal
1030176	Water	2023-10-06	BT-3-0-2	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067095	Normal
1030176	Water	2023-10-06	BT-3-0-2	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067095	Normal
1030176	Water	2023-10-06	BT-3-0-3	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067098	Normal
1030176	Water	2023-10-06	BT-3-3-2	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067103	Normal
1030176	Water	2023-10-06	BT-3-5-2	28/09/2023	PFAS surrogates	13C5-PFHx _A (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067106	Normal
1030176	Water	2023-10-06	BT-3-5-3	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067107	Normal
1030176	Water	2023-10-06	BT-4-1-1	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067118	Normal
1030176	Water	2023-10-06	BT-4-1-2	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067119	Normal
1030176	Water	2023-10-06	BT-4-1-3	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067120	Normal
1030176	Water	2023-10-06	BT-4-3-3	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067123	Normal
1030176	Water	2023-10-10	BT-2-1-2	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067081	Normal
1036504	Soil	2023-10-26	B2-3	16/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044723	Normal
1036504	Soil	2023-10-26	B3-2	16/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044732	Normal
1036504	Soil	2023-10-30	B3-3	16/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044734	Normal
1036504	Soil	2023-10-30	B3-3	16/10/2023	PFAS surrogates	13C6-PFDA (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044734	Normal
1036504	Soil	2023-10-26	B3-6	17/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044751	Normal
1036504	Soil	2023-10-30	B3-6	17/10/2023	PFAS surrogates	13C6-PFDA (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044750	Normal
1036504	Soil	2023-10-30	QC01	17/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044743	Field_D
1026894	Water	2023-09-20	W001	15/09/2023	Surrogate	4-Bromofluorobenzene		98	50	150 USEPA SW846 8260	B23-Se0039303	Normal
1026894	Water	2023-09-20	W001	15/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039303	Normal
1026894	Water	2023-09-20	W005	15/09/2023	PFAS surrogates	13C8-PFOA		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039307	Normal
1026894	Water	2023-09-20	W008	15/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310	Normal
1026894	Water	2023-09-20	W008	15/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310	Normal
1036893	Soil	2023-11-02	B1-1-POST	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047557	Normal
1036893	Soil	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047592	Normal
1036893	Soil	2023-11-02	B3-1-POST	19/10/2023	PFAS surrogates	Extracted ISTD 1802 PFHxS		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047627	Normal
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047640	Normal
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047640	Normal
1036893	Soil	2023-11-06	B1-1-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047556	Normal
1036893	Soil	2023-11-06	B1-5-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047588	Normal
1036893	Soil	2023-11-06	B2-5-POST	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047623	Normal
1036893	Soil	2023-11-06	B3-2-POST	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047639	Normal
1036893	Soil	2023-11-06	B3-2-POST	19/10/2023	PFAS surrogates	Extracted ISTD 1802 PFHxS		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047639	Normal
1036893	Water	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047593	Normal
1036893	Water	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047606	Normal
1036893	Water	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	13C8-PFOA		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047606	Normal
1036893	Water	2023-11-02	B2-3-POST	19/10/2023	PFAS surrogates	13C5-PFHx _A (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047609	Normal
1036893	Water	2023-11-02	B3-1-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047628	Normal
1036893	Water	2023-11-02	B3-3-POST	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047644	Normal
1036893	Water	2023-11-09	B1-3-POST_DAY_1	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047575	Normal
1036893	Water	2023-11-09	B1-3-POST_DAY_4	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047578	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_1	19/10/2023	PFAS surrogates	13C5-PFHx _A (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047594	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_2	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047595	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_4	19/10/2023	PFAS surrogates	13C8-PFOS		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047597	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_3	19/10/2023	PFAS surrogates	13C8-PFOS		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047612	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_2	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047630	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_2	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047646	Normal
1036893	Water	2023-11-10	B1-1-POST_DAY_5	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047563	Normal
1036893	Water	2023-11-10	B1-1-POST_DAY_5	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047563	Normal
1036893	Water	2023-11-10	B1-1-POST_DAY_6	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047564	Normal
1036893	Water	2023-11-10	B1-3-POST_DAY_5	19/10/2023	PFAS surrogates	13C8-PFOA		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047579	Normal
1036893	Water	2023-11-10	B1-3-POST_DAY_5	19/10/2023	PFAS surrogates	Extracted ISTD 1802 PFHxS		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047579	Normal
1036893	Water	2023-11-10	B3-1-POST_DAY_5	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047633	Normal
1036893	Water	2023-11-10	B3-1-POST_DAY_5	19/10/2023	PFAS surrogates	13C8-PFOA		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047633	Normal
1036893	Water	2023-11-10	B3-3-POST_DAY_5	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047649	Normal
1036893	Water	2023-11-13	B1-1-POST_DAY_8	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047566	Normal
1036893	Water	2023-11-13	B1-3-POST_DAY_8	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047582	Normal
1036893	Water	2023-11-13	B2-1-POST_DAY_8	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047601	Normal
1036893	Water	2023-11-13	B2-1-POST_DAY_8	19/10/2023	PFAS surrogates	Extracted ISTD 1802 PFHxS		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047601	Normal
1036893	Water	2023-11-13	B2-3-POST_DAY_8	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047617	Normal
1036893	Water	2023-11-13	B2-3-POST_DAY_9	19/10/2023	PFAS surrogates	13C8-PFOA		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047618	Normal
1036893	Water	2023-11-13	B3-1-POST_DAY_9	19/10/2023	PFAS surrogates	13C5-PFHx _A (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047637	Normal
1036893	Water	2023-11-14	B1-3-POST_DAY_10	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047584	Normal
1036893	Water	2023-11-14	B1-3-POST_DAY_10	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047584	Normal
1036893	Water	2023-11-14	B2-1-POST_DAY_10	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047603	Normal
1036893	Water	2023-11-14	B3-1-POST_DAY_10	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		98	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047638	Normal
1036504	Soil	2023-10-26	B1-3	16/10/2023	PFAS surrogates	Extracted ISTD 1802 PFHxS		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044711	Normal
1036504	Soil	2023-10-26	B1-4	16/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044714	Normal
1030176	Soil	2023-10-11	BT-1-0-2	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067056	Normal
1030176	Water	2023-10-06	BT-1-1-1	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067061	Normal
1030176	Water	2023-10-06	BT-2-0-2	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067076	Normal
1030176	Water	2023-10-06	BT-2-3-3	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067085	Normal
1030176	Water	2023-10-06	BT-2-3-3	28/09/2023	PFAS surrogates	13C8-PFOA		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067085	Normal
1030176	Water	2023-10-06	BT-3-3-2	28/09/2023	PFAS surrogates	13C8-PFOA		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067103	Normal
1030176	Water	2023-10-06	BT-4-0-2	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067114	Normal
1030176	Water											

Surrogates													
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type	
1036893	Soil	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047624	Normal	
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047640	Normal	
1036893	Soil	2023-11-02	B3-3-POST	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047643	Normal	
1036893	Soil	2023-11-02	B3-4-POST	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047656	Normal	
1036893	Soil	2023-11-06	B1-1-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047556	Normal	
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047569	Normal	
1036893	Soil	2023-11-06	B1-3-POST	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047572	Normal	
1036893	Soil	2023-11-06	B2-4-POST	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047620	Normal	
1036893	Soil	2023-11-06	B2-4-POST	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047620	Normal	
1036893	Soil	2023-11-06	B3-2-POST	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047639	Normal	
1036893	Soil	2023-11-06	B3-4-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047655	Normal	
1036893	Soil	2023-11-06	B3-4-POST	19/10/2023	PFAS surrogates	13C8-PFOA		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047655	Normal	
1036893	Soil	2023-11-06	B3-4-POST	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047655	Normal	
1036893	Water	2023-11-02	B1-2-POST	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047571	Normal	
1036893	Water	2023-11-02	B1-2-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047571	Normal	
1036893	Water	2023-11-02	B3-1-POST	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047628	Normal	
1036893	Water	2023-11-02	B3-1-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047628	Normal	
1036893	Water	2023-11-02	B3-5-POST	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047660	Normal	
1036893	Water	2023-11-02	B3-5-POST	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047660	Normal	
1036893	Water	2023-11-09	B1-1-POST_DAY_4	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047562	Normal	
1036893	Water	2023-11-09	B2-1-POST_DAY_3	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047596	Normal	
1036893	Water	2023-11-09	B2-1-POST_DAY_4	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047597	Normal	
1036893	Water	2023-11-09	B2-3-POST_DAY_4	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047613	Normal	
1036893	Water	2023-11-09	B3-1-POST_DAY_1	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047629	Normal	
1036893	Water	2023-11-09	B3-1-POST_DAY_1	19/10/2023		13C8 PFOS		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047629	Normal	
1036893	Water	2023-11-10	B1-1-POST_DAY_6	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047564	Normal	
1036893	Water	2023-11-10	B1-3-POST_DAY_5	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047579	Normal	
1036893	Water	2023-11-10	B2-3-POST_DAY_6	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047615	Normal	
1036893	Water	2023-11-10	B3-3-POST_DAY_5	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047649	Normal	
1036893	Water	2023-11-13	B1-3-POST_DAY_9	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047583	Normal	
1036893	Water	2023-11-13	B2-1-POST_DAY_8	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047601	Normal	
1036893	Water	2023-11-13	B2-1-POST_DAY_8	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047601	Normal	
1036893	Water	2023-11-13	B3-3-POST_DAY_8	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047652	Normal	
1036893	Water	2023-11-14	B2-3-POST_DAY_10	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		99	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047619	Normal	
1036504	Soil	2023-10-26	B1-1	16/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		100	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044705	Normal	
1036504	Soil	2023-10-26	B1-2	16/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		85	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044708	Normal	
1036504	Soil	2023-10-26	B1-4	16/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		100	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044714	Normal	
1036504	Soil	2023-10-30	B2-1	16/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		100	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044716	Normal	
1030176	Soil	2023-10-06	BT-4-0-2	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		100	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067112	Normal	
1030176	Soil	2023-10-11	BT-1-0-1	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		100	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067053	Normal	
1030176	Soil	2023-10-11	BT-1-0-3	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)		100	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067059	Normal	
1030176	Soil	2023-10-11	BT-1-0-3	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		100	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067059	Normal	
1030176	Soil	2023-10-11	BT-2-0-1	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)		100	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067072	Normal	
1030176	Soil	2023-10-11	BT-2-0-1	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)		100	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067072	Normal	
1030176	Soil	2023-10-11	BT-3-0-1	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		100	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067091	Normal	
1030176	Water	2023-10-06	BT-2-0-1	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		100	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067073	Normal	
1030176	Water	2023-10-06	BT-3-3-2	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		100	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067103	Normal	
1030176	Water	2023-10-06	BT-3-3-2	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate		100	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067103	Normal	
1030176	Water	2023-10-06	BT-3-5-1	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)		100	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067105	Normal	
1030176	Water	2023-10-06	BT-4-0-1	28/09/2023	PFAS surrogates	13C8-PFOA		100	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067111	Normal	
1030176	Water	2023-10-06	BT-4-0-2	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate		100	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067114	Normal	
1030176	Water	2023-10-06	BT-4-0-3	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		100	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067117	Normal	
1030176	Water	2023-10-06	BT-4-0-3	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		100	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067117	Normal	
1030176	Water	2023-10-06	BT-4-1-1	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		100	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067118	Normal	
1030176	Water	2023-10-06	BT-4-1-1	28/09/2023		13C8 PFOS		100	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067118	Normal	
1030176	Water	2023-10-06	BT-4-3-3	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		100	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067123	Normal	
1030176	Water	2023-10-06	BT-4-5-3	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		100	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067126	Normal	
1030176	Water	2023-10-10	BT-1-1-2	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		100	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067062	Normal	
1030176	Water	2023-10-10	BT-1-3-3	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		100	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067066	Normal	
1036504	Soil	2023-10-30	B2-2	16/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		100	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044719	Normal	
1036504	Soil	2023-10-26	B2-4	16/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		100	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044726	Normal	
1036504	Soil	2023-10-26	B2-6	17/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		100	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044746	Normal	
1036504	Soil	2023-10-30	B3-4	16/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		100	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044737	Normal	
EB2332809	Soil	2023											

Surrogates												
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1036504	Soil	2023-10-30	B1-2	16/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	86	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044707	Normal
1036504	Soil	2023-10-30	B1-3	16/10/2023	PFAS surrogates	13C5-PFNA (surr.)	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044710	Normal
1036504	Soil	2023-10-30	B1-6	16/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044740	Normal
1036504	Soil	2023-10-30	B2-3	16/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044722	Normal
1030176	Soil	2023-10-06	BT-2-0-2	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067074	Normal
1030176	Soil	2023-10-06	BT-4-0-1	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067109	Normal
1030176	Soil	2023-10-06	BT-4-0-2	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067112	Normal
1030176	Soil	2023-10-06	BT-4-0-2	28/09/2023		13C8 PFOS	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067112	Normal
1030176	Soil	2023-10-11	BT-2-0-1	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067072	Normal
1030176	Soil	2023-10-11	BT-2-0-1	28/09/2023		Extracted ISTD 1802 PFHxS	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067072	Normal
1030176	Soil	2023-10-11	BT-4-0-2	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067113	Normal
1030176	Soil	2023-10-11	BT-4-0-3	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067116	Normal
1030176	Water	2023-10-06	BT-2-3-1	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067083	Normal
1030176	Water	2023-10-06	BT-2-3-2	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067084	Normal
1030176	Water	2023-10-06	BT-3-3-2	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067103	Normal
1030176	Water	2023-10-06	BT-4-1-1	28/09/2023	PFAS surrogates	13C8-PFOA	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067118	Normal
1030176	Water	2023-10-06	BT-4-1-1	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067118	Normal
1030176	Water	2023-10-06	BT-4-3-3	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067123	Normal
1030176	Water	2023-10-10	BT-1-5-2	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068	Normal
1036504	Soil	2023-10-26	B2-6	17/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044746	Normal
1036504	Soil	2023-10-30	B3-4	16/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044737	Normal
1036504	Soil	2023-10-26	B3-6	17/10/2023	PFAS surrogates	13C8-PFOA	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044751	Normal
1036504	Soil	2023-10-30	QC01	17/10/2023		13C8 PFOS	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044743	Field_D
EB2332809	Soil	2023-10-27	QC02	17/10/2023 17:55	PFAS surrogates	13C8-PFOA	101	78.1	131	EP231S: PFAS Surrogate	EB2332809001	Interlab_D
1026894	Water	2023-09-20	W001	15/09/2023	PFAS surrogates	13C6-PFDA (surr.)	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039303	Normal
1026894	Water	2023-09-20	W003	15/09/2023	PFAS surrogates	13C6-PFDA (surr.)	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039305	Normal
1026894	Water	2023-09-20	W007	15/09/2023	PFAS surrogates	13C8-FOSA (surr.)	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039309	Normal
1026894	Water	2023-09-20	W008	15/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310	Normal
1036893	Soil	2023-11-02	B1-2-POST	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047570	Normal
1036893	Soil	2023-11-02	B1-3-POST	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047573	Normal
1036893	Soil	2023-11-02	B1-5-POST	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047589	Normal
1036893	Soil	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047592	Normal
1036893	Soil	2023-11-02	B2-1-POST	19/10/2023		13C8 PFOS	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047592	Normal
1036893	Soil	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047605	Normal
1036893	Soil	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047605	Normal
1036893	Soil	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047621	Normal
1036893	Soil	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047624	Normal
1036893	Soil	2023-11-02	B3-4-POST	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047656	Normal
1036893	Soil	2023-11-02	B3-4-POST	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047656	Normal
1036893	Soil	2023-11-02	B3-5-POST	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047659	Normal
1036893	Soil	2023-11-06	B2-2-POST	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047604	Normal
1036893	Soil	2023-11-06	B3-3-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047642	Normal
1036893	Water	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047625	Normal
1036893	Water	2023-11-02	B3-5-POST	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047660	Normal
1036893	Water	2023-11-02	QC19	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047661	Field_D
1036893	Water	2023-11-02	QC23	19/10/2023	PFAS surrogates	(13C3-PFB5) Surrogate	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047663	Field_D
1036893	Water	2023-11-02	QC23	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047663	Field_D
1036893	Water	2023-11-09	B1-1-POST_DAY_4	19/10/2023		13C8 PFOS	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047562	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_3	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047612	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_4	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047613	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_2	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047630	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_2	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047630	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_4	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047648	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_4	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047648	Normal
1036893	Water	2023-11-10	B2-3-POST_DAY_5	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047614	Normal
1036893	Water	2023-11-13	B1-1-POST_DAY_8	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047566	Normal
1036893	Water	2023-11-13	B3-1-POST_DAY_8	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047636	Normal
1036893	Water	2023-11-13	B3-1-POST_DAY_8	19/10/2023		Extracted ISTD 1802 PFHxS	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047636	Normal
1036893	Water	2023-11-13	B3-3-POST_DAY_9	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047653	Normal
1036893	Water	2023-11-14	B1-3-POST_DAY_10	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047584	Normal
1026894	Water	2023-09-20	W008	15/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)	101	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310	Normal
1036504	Soil	2023-10-26	B1-1	16/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	102	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044705	Normal
1036504	Soil	2023-10-26	B1-1	16/10/2023		13C8 PFOS	102	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044705	Normal
1036504	Soil	2023-10-30	B2-3	16/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	102	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044722	Normal
1036504	Soil	2023-10-30	B2-3	16/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	102	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044722	Normal
1030176	Soil	2023-10-11	BT-1-0-1	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)	102	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067053	Normal
1030176	Soil	2023-10-11	BT-1-0-3	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	102	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067059	Normal
1030176	Soil	2023-10-11	BT-1-0-3	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	102	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067059	Normal
1030176	Soil	2023-10-11	BT-2-0-3	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)	102	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067078	Normal
1030176	Soil	2023-10-11	BT-3-0-1	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)	102	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067091	Normal
1030176	Soil	2023-10-11	BT-4-0-3	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	102	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067116	Normal
1030176	Soil	2023-10-11	BT-4-0-3	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	102	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067116	Normal
1030176	Water	2023-10-06	BT-1-5-1	28/09/2023	PFAS surrogates	(13C3-PFB5) Surrogate	102	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067067	Normal
1030176	Water	2023-10-06	BT-2-1-1	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	102	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067080	Normal
1030176	Water	2023-10-06	BT-3-5-2	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)	102	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067106	Normal
1030176	Water	2023-10-06	BT-4-0-3	28/09/2023		Extracted ISTD 1802 PFHxS	102	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067117	Normal
1030176	Water	2023-10-06	BT-4-1-1	28/09/2023		Extracted ISTD 1802 PFHxS	102	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067118	Normal
1030176	Water	2023-10-06										

Surrogates												
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1026894	Water	2023-09-20	W009	15/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039311	Normal
1036893	Soil	2023-11-02	B1-2-POST	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047570	Normal
1036893	Soil	2023-11-02	B1-4-POST	19/10/2023		Extracted ISTD 1802 PFHxS		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047586	Normal
1036893	Soil	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	(13C4-PFHpa) Surrogate		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047592	Normal
1036893	Soil	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047621	Normal
1036893	Soil	2023-11-02	B3-3-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047643	Normal
1036893	Soil	2023-11-06	B3-1-POST	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047626	Normal
1036893	Soil	2023-11-06	B3-3-POST	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047642	Normal
1036893	Soil	2023-11-06	B3-4-POST	19/10/2023	PFAS surrogates	13C5-PFHxa (surr.)		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047655	Normal
1036893	Soil	2023-11-06	B3-5-POST	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047658	Normal
1036893	Water	2023-11-02	B1-5-POST	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047590	Normal
1036893	Water	2023-11-02	B2-2-POST	19/10/2023		Extracted ISTD 1802 PFHxS		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047606	Normal
1036893	Water	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047622	Normal
1036893	Water	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047641	Normal
1036893	Water	2023-11-09	B1-1-POST_DAY_1	19/10/2023		13C8 PFOS		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047559	Normal
1036893	Water	2023-11-09	B1-1-POST_DAY_3	19/10/2023	PFAS surrogates	(13C4-PFHpa) Surrogate		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047561	Normal
1036893	Water	2023-11-09	B1-1-POST_DAY_4	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047562	Normal
1036893	Water	2023-11-09	B1-1-POST_DAY_4	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047562	Normal
1036893	Water	2023-11-09	B1-3-POST_DAY_2	19/10/2023	PFAS surrogates	(13C5-PFPea) Surrogate		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047576	Normal
1036893	Water	2023-11-09	B1-3-POST_DAY_3	19/10/2023		13C8 PFOS		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047577	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_3	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047612	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_4	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047613	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_4	19/10/2023	PFAS surrogates	13C5-PFHxa (surr.)		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047632	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_2	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047646	Normal
1036893	Water	2023-11-10	B1-3-POST_DAY_6	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047580	Normal
1036893	Water	2023-11-10	B2-3-POST_DAY_5	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047614	Normal
1036893	Water	2023-11-10	B2-3-POST_DAY_6	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047615	Normal
1036893	Water	2023-11-13	B1-1-POST_DAY_8	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047566	Normal
1036893	Water	2023-11-13	B1-1-POST_DAY_8	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047566	Normal
1036893	Water	2023-11-13	B1-3-POST_DAY_9	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047583	Normal
1036893	Water	2023-11-13	B2-1-POST_DAY_9	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047602	Normal
1036893	Water	2023-11-13	B3-3-POST_DAY_8	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047652	Normal
1036893	Water	2023-11-14	B1-3-POST_DAY_10	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047584	Normal
1036893	Water	2023-11-14	B3-3-POST_DAY_7	19/10/2023	PFAS surrogates	(13C5-PFPea) Surrogate		102	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047651	Normal
1036504	Soil	2023-10-30	B1-1	16/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044704	Normal
1036504	Soil	2023-10-30	B1-6	16/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044740	Normal
1036504	Soil	2023-10-26	B3-6	17/10/2023		Extracted ISTD 1802 PFHxS		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044751	Normal
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067052	Normal
1030176	Soil	2023-10-11	BT-1-0-1	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067053	Normal
1030176	Soil	2023-10-11	BT-1-0-2	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067056	Normal
1030176	Soil	2023-10-11	BT-1-0-3	28/09/2023	PFAS surrogates	13C5-PFHxa (surr.)		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067059	Normal
1030176	Soil	2023-10-11	BT-4-0-1	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067110	Normal
1030176	Soil	2023-10-11	BT-4-0-1	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067110	Normal
1030176	Soil	2023-10-11	BT-4-0-2	28/09/2023	PFAS surrogates	13C5-PFHxa (surr.)		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067113	Normal
1030176	Water	2023-10-06	BT-3-3-2	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067103	Normal
1030176	Water	2023-10-06	BT-3-3-2	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067103	Normal
1030176	Water	2023-10-06	BT-3-5-1	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067105	Normal
1030176	Water	2023-10-06	BT-4-0-1	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067111	Normal
1030176	Water	2023-10-06	BT-4-0-1	28/09/2023		13C8 PFOS		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067111	Normal
1030176	Water	2023-10-06	BT-4-3-2	28/09/2023	PFAS surrogates	13C5-PFHxa (surr.)		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067122	Normal
1030176	Water	2023-10-06	BT-4-5-1	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067124	Normal
1030176	Water	2023-10-10	BT-1-1-2	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067062	Normal
1030176	Water	2023-10-10	BT-1-1-2	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067062	Normal
1030176	Water	2023-10-10	BT-1-1-2	28/09/2023	PFAS surrogates	13C8-PFOA		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067062	Normal
1030176	Water	2023-10-10	BT-1-1-2	28/09/2023		13C8 PFOS		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067062	Normal
1030176	Water	2023-10-10	BT-1-5-2	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068	Normal
1030176	Water	2023-10-10	BT-2-1-2	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067081	Normal
1028097	Soil	2023-09-27	W001	15/09/2023	PFAS surrogates	(13C5-PFPea) Surrogate		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049211	Normal
1028097	Soil	2023-09-27	W003	15/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049213	Normal
1026894	Water	2023-09-20	W004	15/09/2023	PFAS surrogates	13C8-PFOA		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039306	Normal
1026894	Water	2023-09-20	W007	15/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039309	Normal
1036893	Soil	2023-11-02	B1-2-POST	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047570	Normal
1036893	Soil	2023-11-02	B1-4-POST	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047586	Normal
1036893	Soil	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047605	Normal
1036893	Soil	2023-11-02	B3-3-POST	19/10/2023	PFAS surrogates	13C8-PFOA		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047643	Normal
1036893	Soil	2023-11-02	B3-5-POST	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047659	Normal
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047569	Normal
1036893	Soil	2023-11-06	B2-4-POST	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047620	Normal
1036893	Soil	2023-11-06	B2-5-POST	19/10/2023		13C8 PFOS		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047623	Normal
1036893	Soil	2023-11-06	B3-1-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047626	Normal
1036893	Soil	2023-11-06	B3-3-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047642	Normal
1036893	Soil	2023-11-06	B3-5-POST	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047658	Normal
1036893	Water	2023-11-02	B1-3-POST	19/10/2023		Extracted ISTD 1802 PFHxS		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047574	Normal
1036893	Water	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047606	Normal
1036893	Water	2023-11-02	B2-3-POST	19/10/2023	PFAS surrogates	(13C4-PFHpa) Surrogate		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047609	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_2	19/10/2023	PFAS surrogates	13C5-PFHxa (surr.)		103	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047630	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_3	19/10/2023	PFAS surrogates	(13C5-PFPea) Surrogate		103	20	1		

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1026894	Water	2023-09-20	W001	15/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		104	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039303	Normal
1030176	Soil	2023-10-06	BT-1-0-2	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		104	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067053	Normal
1030176	Soil	2023-10-06	BT-1-0-2	28/09/2023	PFAS surrogates	Extracted ISTD 1802 PFHxS		104	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067055	Normal
1030176	Soil	2023-10-06	BT-1-0-3	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		104	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067058	Normal
1030176	Soil	2023-10-06	BT-3-0-1	28/09/2023	PFAS surrogates	13C8 PFOS		104	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067090	Normal
1030176	Soil	2023-10-06	BT-4-0-2	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		104	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067112	Normal
1030176	Soil	2023-10-11	BT-1-0-1	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		104	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067053	Normal
1030176	Soil	2023-10-11	BT-1-0-1	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		104	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067053	Normal
1030176	Soil	2023-10-11	BT-1-0-1	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		104	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067053	Normal
1030176	Soil	2023-10-11	BT-1-0-1	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)		104	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067053	Normal
1030176	Soil	2023-10-11	BT-1-0-1	28/09/2023	PFAS surrogates	13C8-PFOA		104	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067053	Normal
1030176	Soil	2023-10-11	BT-1-0-1	28/09/2023	PFAS surrogates	13C8 PFOS		104	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067053	Normal
1030176	Soil	2023-10-11	BT-1-0-2	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		104	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067056	Normal
1030176	Soil	2023-10-11	BT-2-0-2	28/09/2023	PFAS surrogates	13C5-PFHxS (surr.)		104	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067075	Normal
1030176	Soil	2023-10-11	BT-4-0-1	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		104	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067110	Normal
1030176	Soil	2023-10-11	BT-4-0-2	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)		104	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067113	Normal
1030176	Water	2023-10-06	BT-1-1-1	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)		104	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067061	Normal
1030176	Water	2023-10-06	BT-1-1-1	28/09/2023	PFAS surrogates	13C8 PFOS		104	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067061	Normal
1030176	Water	2023-10-06	BT-2-0-2	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		104	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067076	Normal
1030176	Water	2023-10-06	BT-2-0-2	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		104	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067076	Normal
1030176	Water	2023-10-06	BT-2-3-2	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		104	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067084	Normal
1030176	Water	2023-10-06	BT-2-3-3	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)		104	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067085	Normal
1030176	Water	2023-10-06	BT-2-3-3	28/09/2023	PFAS surrogates	13C8 PFOS		104	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067085	Normal
1030176	Water	2023-10-06	BT-2-5-1	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		104	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067086	Normal
1030176	Water	2023-10-06	BT-3-1-1	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate		104	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067099	Normal

Surrogates

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1030176	Water	2023-10-06	BT-2-5-2	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067087	Normal
1030176	Water	2023-10-06	BT-3-3-2	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067103	Normal
1030176	Water	2023-10-06	BT-4-0-2	28/09/2023	PFAS surrogates	(13C4-PFHpa) Surrogate		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067114	Normal
1030176	Water	2023-10-06	BT-4-0-2	28/09/2023	PFAS surrogates	13C8-PFOA		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067114	Normal
1030176	Water	2023-10-06	BT-4-0-3	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067117	Normal
1030176	Water	2023-10-06	BT-4-3-2	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067122	Normal
1030176	Water	2023-10-06	BT-4-3-2	28/09/2023	PFAS surrogates	13C8-PFOA		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067122	Normal
1030176	Water	2023-10-10	BT-2-1-2	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067081	Normal
1030176	Water	2023-10-10	BT-2-1-2	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067081	Normal
1030176	Water	2023-10-10	BT-2-1-2	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067081	Normal
1036504	Soil	2023-10-26	B3-3	16/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044735	Normal
1036504	Soil	2023-10-26	B3-3	16/10/2023	PFAS surrogates	13C5-PFNA (surr.)		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044735	Normal
1036504	Soil	2023-10-30	B3-4	16/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044737	Normal
1036504	Soil	2023-10-26	B3-4	16/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044738	Normal
1026894	Water	2023-09-20	W001	15/09/2023	PFAS surrogates	13C5-PFHxA (surr.)		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039303	Normal
1026894	Water	2023-09-20	W005	15/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039307	Normal
1026894	Water	2023-09-20	W008	15/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310	Normal
1036893	Soil	2023-11-02	B1-5-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047589	Normal
1036893	Soil	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047592	Normal
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	(13C4-PFHpa) Surrogate		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047640	Normal
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	Extracted ISTD 1802 PFHxS		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047640	Normal
1036893	Soil	2023-11-02	B3-3-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047643	Normal
1036893	Soil	2023-11-02	B3-5-POST	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047659	Normal
1036893	Soil	2023-11-06	B1-1-POST	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047556	Normal
1036893	Soil	2023-11-06	B1-1-POST	19/10/2023	PFAS surrogates	13C8-PFOA		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047556	Normal
1036893	Soil	2023-11-06	B2-1-POST	19/10/2023	PFAS surrogates	13C8 PFOS		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047591	Normal
1036893	Soil	2023-11-06	B2-2-POST	19/10/2023	PFAS surrogates	13C8 PFOS		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047604	Normal
1036893	Soil	2023-11-06	B3-4-POST	19/10/2023	PFAS surrogates	(13C4-PFHpa) Surrogate		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047655	Normal
1036893	Soil	2023-11-06	B3-4-POST	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047655	Normal
1036893	Soil	2023-11-06	B3-5-POST	19/10/2023	PFAS surrogates	Extracted ISTD 1802 PFHxS		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047658	Normal
1036893	Water	2023-11-09	B1-1-POST_DAY_2	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047560	Normal
1036893	Water	2023-11-09	B1-1-POST_DAY_4	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047562	Normal
1036893	Water	2023-11-09	B1-1-POST_DAY_4	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047562	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_1	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047610	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_3	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047612	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_4	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047632	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_3	19/10/2023	PFAS surrogates	13C8 PFOS		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047647	Normal
1036893	Water	2023-11-10	B1-3-POST_DAY_5	19/10/2023	PFAS surrogates	(13C4-PFHpa) Surrogate		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047579	Normal
1036893	Water	2023-11-10	B1-3-POST_DAY_6	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047580	Normal
1036893	Water	2023-11-10	B2-1-POST_DAY_5	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047598	Normal
1036893	Water	2023-11-10	B3-3-POST_DAY_6	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047650	Normal
1036893	Water	2023-11-13	B1-3-POST_DAY_8	19/10/2023	PFAS surrogates	Extracted ISTD 1802 PFHxS		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047582	Normal
1036893	Water	2023-11-13	B2-1-POST_DAY_8	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047601	Normal
1036893	Water	2023-11-13	B2-1-POST_DAY_9	19/10/2023	PFAS surrogates	(13C4-PFHpa) Surrogate		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047602	Normal
1036893	Water	2023-11-13	B3-1-POST_DAY_8	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		105	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047636	Normal
1036504	Soil	2023-10-30	B1-1	16/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		106	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044704	Normal
1036504	Soil	2023-10-26	B1-3	16/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		106	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044711	Normal
1036504	Soil	2023-10-30	B1-6	16/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		106	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044740	Normal
1036504	Soil	2023-10-26	B2-1	16/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		106	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044717	Normal
1030176	Soil	2023-10-11	BT-2-0-3	28/09/2023	PFAS surrogates	Extracted ISTD 1802 PFHxS		106	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067078	Normal
1030176	Soil	2023-10-11	BT-4-0-1	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		106	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067110	Normal
1030176	Water	2023-10-06	BT-1-3-2	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		106	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067065	Normal
1030176	Water	2023-10-06	BT-3-0-3	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		106	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067098	Normal
1030176	Water	2023-10-06	BT-3-3-2	28/09/2023	PFAS surrogates	Extracted ISTD 1802 PFHxS		106	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067103	Normal
1030176	Water	2023-10-06	BT-4-0-3	28/09/2023	PFAS surrogates	13C8-PFOA		106	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067117	Normal
1030176	Water	2023-10-06	BT-4-1-2	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		106	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067119	Normal
1030176	Water	2023-10-10	BT-1-5-2	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		106	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068	Normal
1036504	Soil	2023-10-26	B2-3	16/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		106	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044723	Normal
1036504	Soil	2023-10-26	B2-4	16/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		106	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044726	Normal
1036504	Soil	2023-10-30	B3-1	16/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		106	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044728	Normal
1036504	Soil	2023-10-26	B3-4	16/10/2023	PFAS surrogates	13C8-PFOA		106	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044738	Normal
1028097	Soil	2023-09-27	W001	15/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		106	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049211	Normal
1026894	Water	2023-09-20	W003	15/09/2023	PFAS surrogates	(13C4-PFHpa) Surrogate		106	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039305	Normal
1026894	Water	2023-09-20	W004	15/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		106	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039306	Normal
1026894	Water	2023-09-20	W005	15/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		106	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039307	Normal
1036893	Soil	2023-11-02	B1-3-POST	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		106	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047573	Normal
1036893	Soil	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	13C8-PFOA		106	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047592	Normal
1036893	Soil	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		106	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047605	Normal
1036893	Soil	2023-11-02	B2-3-POST	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		106	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047608	Normal
1036893	Soil	2023-11-06	B1-1-POST	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		106	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047556	Normal
1036893	Soil	2023-11-06	B3-1-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		106	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047626	Normal
1036893	Soil	2023-11-06	B3-1-POST	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		106	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047626	Normal
1036893	Soil	2023-11-06	B3-3-POST	19/10/2023	PFAS surrogates	Extracted ISTD 1802 PFHxS		106	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047642	Normal
1036893	Water	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		106	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047593	Normal
1036893	Water	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	13C8 PFOS		106	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047593	Normal
1036893	Water	2023-11-02	B3-1-POST	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		106	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047628	Normal
1036893	Water	2023-11-02	QC23	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		106	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047663	Field_D
1036893	Water											

Surrogates												
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1030176	Soil	2023-10-11	BT-1-O-3	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067059	Normal
1030176	Soil	2023-10-11	BT-1-O-3	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067059	Normal
1030176	Soil	2023-10-11	BT-2-O-3	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067078	Normal
1030176	Soil	2023-10-11	BT-3-O-2	28/09/2023	PFAS surrogates	(13C4-PFHpa) Surrogate	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094	Normal
1030176	Soil	2023-10-11	BT-4-O-1	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067110	Normal
1030176	Soil	2023-10-11	BT-4-O-1	28/09/2023	PFAS surrogates	Extracted ISTD 1802 PFHxS	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067110	Normal
1030176	Soil	2023-10-11	BT-4-O-3	28/09/2023	PFAS surrogates	(13C3-PFBs) Surrogate	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067116	Normal
1030176	Water	2023-10-06	BT-2-1-1	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067080	Normal
1030176	Water	2023-10-06	BT-2-5-2	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067087	Normal
1030176	Water	2023-10-06	BT-2-5-2	28/09/2023	PFAS surrogates	13C8 PFOS	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067087	Normal
1030176	Water	2023-10-06	BT-3-O-2	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067095	Normal
1030176	Water	2023-10-06	BT-3-O-3	28/09/2023	PFAS surrogates	(13C4-PFHpa) Surrogate	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067098	Normal
1030176	Water	2023-10-06	BT-4-1-1	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067118	Normal
1030176	Water	2023-10-06	BT-4-1-3	28/09/2023	PFAS surrogates	13C8-PFOA	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067120	Normal
1030176	Water	2023-10-06	BT-4-3-2	28/09/2023	PFAS surrogates	13C8 PFOS	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067122	Normal
1030176	Water	2023-10-10	BT-1-3-3	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067066	Normal
1036504	Soil	2023-10-26	B3-6	17/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044751	Normal
1028097	Soil	2023-09-27	W001	15/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049211	Normal
1028097	Soil	2023-09-27	W001	15/09/2023	PFAS surrogates	13C8 PFOS	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049211	Normal
1036893	Soil	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047592	Normal
1036893	Soil	2023-11-02	B3-5-POST	19/10/2023	PFAS surrogates	Extracted ISTD 1802 PFHxS	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047659	Normal
1036893	Soil	2023-11-06	B1-1-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047556	Normal
1036893	Soil	2023-11-06	B1-1-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047556	Normal
1036893	Soil	2023-11-06	B2-2-POST	19/10/2023	PFAS surrogates	(13C3-PFBs) Surrogate	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047604	Normal
1036893	Soil	2023-11-06	B2-3-POST	19/10/2023	PFAS surrogates	13C8 PFOS	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047607	Normal
1036893	Soil	2023-11-06	B3-1-POST	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047626	Normal
1036893	Soil	2023-11-06	B3-3-POST	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047642	Normal
1036893	Soil	2023-11-06	B3-3-POST	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047642	Normal
1036893	Soil	2023-11-06	B3-5-POST	19/10/2023	PFAS surrogates	13C8 PFOS	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047658	Normal
1036893	Water	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047625	Normal
1036893	Water	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047641	Normal
1036893	Water	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047641	Normal
1036893	Water	2023-11-02	B3-3-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047644	Normal
1036893	Water	2023-11-02	QC19	19/10/2023	PFAS surrogates	(13C3-PFBs) Surrogate	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047661	Field_D
1036893	Water	2023-11-02	QC21	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047662	Field_D
1036893	Water	2023-11-09	B1-3-POST_DAY_2	19/10/2023	PFAS surrogates	(13C4-PFHpa) Surrogate	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047576	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_4	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047648	Normal
1036893	Water	2023-11-10	B1-3-POST_DAY_6	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047580	Normal
1036893	Water	2023-11-10	B2-3-POST_DAY_5	19/10/2023	PFAS surrogates	(13C3-PFBs) Surrogate	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047614	Normal
1036893	Water	2023-11-10	B2-3-POST_DAY_6	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047615	Normal
1036893	Water	2023-11-10	B3-3-POST_DAY_6	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047650	Normal
1036893	Water	2023-11-10	B3-3-POST_DAY_6	19/10/2023	PFAS surrogates	13C8-PFOA	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047650	Normal
1036893	Water	2023-11-10	B3-3-POST_DAY_6	19/10/2023	PFAS surrogates	13C8 PFOS	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047650	Normal
1036893	Water	2023-11-13	B2-1-POST_DAY_8	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047601	Normal
1036893	Water	2023-11-13	B2-1-POST_DAY_8	19/10/2023	PFAS surrogates	13C8-PFOA	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047601	Normal
1036893	Water	2023-11-14	B1-3-POST_DAY_7	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047581	Normal
1036893	Water	2023-11-14	B3-3-POST_DAY_7	19/10/2023	PFAS surrogates	(13C4-PFHpa) Surrogate	107	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047651	Normal
1036504	Water	2023-10-30	B1-2	16/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	72	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044709	Normal
1036504	Soil	2023-10-30	B1-3	16/10/2023	PFAS surrogates	13C8 PFOS	108	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044710	Normal
1036504	Soil	2023-10-30	B3-4	16/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	108	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044737	Normal
1030176	Soil	2023-10-06	BT-1-O-1	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)	108	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067052	Normal
1030176	Soil	2023-10-11	BT-2-O-2	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate	108	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067075	Normal
1030176	Soil	2023-10-11	BT-2-O-3	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	108	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067078	Normal
1030176	Water	2023-10-06	BT-1-3-2	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	108	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067065	Normal
1030176	Water	2023-10-06	BT-2-O-2	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	108	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067076	Normal
1030176	Water	2023-10-06	BT-3-O-2	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	108	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067095	Normal
1030176	Water	2023-10-06	BT-3-5-2	28/09/2023	PFAS surrogates	(13C3-PFBs) Surrogate	108	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067106	Normal
1030176	Water	2023-10-06	BT-4-O-2	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	108	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067114	Normal
1030176	Water	2023-10-06	BT-4-3-3	28/09/2023	PFAS surrogates	Extracted ISTD 1802 PFHxS	108	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067123	Normal
1036504	Soil	2023-10-26	B3-4	16/10/2023	PFAS surrogates	13C5-PFHxA (surr.)	108	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044738	Normal
1036504	Soil	2023-10-30	B3-4	16/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	108	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044737	Normal
1036504	Soil	2023-10-26	B3-6	17/10/2023	PFAS surrogates	(13C3-PFBs) Surrogate	108	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044753	Normal
1036504	Soil	2023-10-30	QC05	17/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	108	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044753	Field_D
1026894	Water	2023-09-20	W007	15/09/2023	PFAS surrogates	13C5-PFHxA (surr.)	108	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039309	Normal
1026894	Water	2023-09-20	W008	15/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	108	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310	Normal
1026894	Water	2023-09-20	W009	15/09/2023	PFAS surrogates	13C8-FOSA (surr.)	108	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039311	Normal
1026894	Water	2023-09-20	W009	15/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	108	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039311	Normal
1036893	Soil	2023-11-02	B1-2-POST	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	108	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047570	Normal
1036893	Soil	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)	108	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047592	Normal
1036893	Soil	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	108	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047621	Normal
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	108	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047640	Normal
1036893	Soil	2023-11-06	B1-4-POST	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)	108	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047585	Normal
1036893	Soil	2023-11-06	B2-1-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	108	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047591	Normal
1036893	Soil	2023-11-06	B3-1-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	108	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047626	Normal
1036893	Soil	2023-11-06	B3-3-POST	19/10/2023	PFAS surrogates	13C8 PFOS	108	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047642	Normal
1036893	Water	2023-11-02	B1-5-POST	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)	108	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047590	Normal
1036893	Water	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	13C8 PFOS	108	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047625	Normal
1036893												

Surrogates													
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type	
1036893	Water	2023-11-13	B2-3-POST_DAY_9	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		108	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047618	Normal	
1036893	Water	2023-11-14	B2-3-POST_DAY_10	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		108	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047619	Normal	
1036893	Water	2023-11-14	B3-3-POST_DAY_7	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		108	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047651	Normal	
1036504	Soil	2023-10-30	B1-1	16/10/2023	PFAS surrogates	13C6-PFDA (surr.)		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044704	Normal	
1036504	Soil	2023-10-26	B1-3	16/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044711	Normal	
1036504	Soil	2023-10-30	QC03	17/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044748	Field_D	
1036504	Soil	2023-10-30	QC05	17/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044753	Field_D	
1026894	Soil	2023-09-20	S006	15/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039315	Normal	
1026894	Water	2023-09-20	W001	15/09/2023	PFAS surrogates	13C8-FOSA (surr.)		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039303	Normal	
1030176	Soil	2023-10-06	BT-2-0-3	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067077	Normal	
1030176	Soil	2023-10-11	BT-1-0-1	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067053	Normal	
1030176	Water	2023-10-06	BT-1-0-3	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067060	Normal	
1030176	Water	2023-10-06	BT-1-1-1	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067061	Normal	
1030176	Water	2023-10-06	BT-2-3-3	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067085	Normal	
1030176	Water	2023-10-06	BT-3-0-2	28/09/2023		13C8 PFOS		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067095	Normal	
1030176	Water	2023-10-06	BT-3-1-1	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067099	Normal	
1030176	Water	2023-10-06	BT-3-1-3	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067101	Normal	
1030176	Water	2023-10-06	BT-3-5-1	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067105	Normal	
1030176	Water	2023-10-06	BT-3-5-2	28/09/2023		13C8 PFOS		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067106	Normal	
1030176	Water	2023-10-06	BT-4-0-3	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067117	Normal	
1030176	Water	2023-10-10	BT-1-3-3	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067066	Normal	
1026894	Water	2023-09-20	W006	15/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039308	Normal	
1026894	Water	2023-09-20	W007	15/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039309	Normal	
1026894	Water	2023-09-20	W007	15/09/2023		Extracted ISTD 1802 PFHxS		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039309	Normal	
1026894	Water	2023-09-20	W009	15/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039311	Normal	
1036893	Soil	2023-11-02	B1-1-POST	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047557	Normal	
1036893	Soil	2023-11-02	B1-3-POST	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047573	Normal	
1036893	Soil	2023-11-02	B1-5-POST	19/10/2023		Extracted ISTD 1802 PFHxS		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047589	Normal	
1036893	Soil	2023-11-02	B2-3-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047608	Normal	
1036893	Soil	2023-11-06	B1-4-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047585	Normal	
1036893	Soil	2023-11-06	B1-4-POST	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047585	Normal	
1036893	Soil	2023-11-06	B1-5-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047588	Normal	
1036893	Soil	2023-11-06	B1-5-POST	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047588	Normal	
1036893	Soil	2023-11-06	B1-5-POST	19/10/2023	PFAS surrogates	13C8-PFOA		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047588	Normal	
1036893	Soil	2023-11-06	B2-5-POST	19/10/2023		Extracted ISTD 1802 PFHxS		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047623	Normal	
1036893	Soil	2023-11-06	B3-3-POST	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047642	Normal	
1036893	Soil	2023-11-06	B3-3-POST	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047642	Normal	
1036893	Soil	2023-11-06	B3-5-POST	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047658	Normal	
1036893	Water	2023-11-02	B1-1-POST	19/10/2023		Extracted ISTD 1802 PFHxS		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047658	Normal	
1036893	Water	2023-11-02	B1-4-POST	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047587	Normal	
1036893	Water	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047593	Normal	
1036893	Water	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047606	Normal	
1036893	Water	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047625	Normal	
1036893	Water	2023-11-02	QC19	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047661	Field_D	
1036893	Water	2023-11-09	B1-1-POST_DAY_4	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047562	Normal	
1036893	Water	2023-11-09	B2-1-POST_DAY_2	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047595	Normal	
1036893	Water	2023-11-09	B2-3-POST_DAY_1	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047610	Normal	
1036893	Water	2023-11-09	B2-3-POST_DAY_4	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047613	Normal	
1036893	Water	2023-11-09	B2-3-POST_DAY_4	19/10/2023		13C8 PFOS		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047613	Normal	
1036893	Water	2023-11-10	B1-3-POST_DAY_6	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047580	Normal	
1036893	Water	2023-11-10	B2-3-POST_DAY_5	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047614	Normal	
1036893	Water	2023-11-10	B2-3-POST_DAY_5	19/10/2023		Extracted ISTD 1802 PFHxS		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047614	Normal	
1036893	Water	2023-11-13	B1-1-POST_DAY_8	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047566	Normal	
1036893	Water	2023-11-13	B1-1-POST_DAY_8	19/10/2023		13C8 PFOS		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047566	Normal	
1036893	Water	2023-11-13	B1-1-POST_DAY_9	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047567	Normal	
1036893	Water	2023-11-13	B1-3-POST_DAY_9	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047583	Normal	
1036893	Water	2023-11-13	B1-3-POST_DAY_9	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047583	Normal	
1036893	Water	2023-11-13	B2-1-POST_DAY_8	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047601	Normal	
1036893	Water	2023-11-14	B1-3-POST_DAY_10	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047584	Normal	
1036893	Water	2023-11-14	B3-1-POST_DAY_10	19/10/2023		Extracted ISTD 1802 PFHxS		109	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047638	Normal	
1030176	Soil	2023-10-11	BT-1-0-1	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		110	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067053	Normal	
1030176	Soil	2023-10-11	BT-4-0-2	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		110	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067113	Normal	
1030176	Water	2023-10-06	BT-2-0-2	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)		110	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067076	Normal	
1030176	Water	2023-10-06	BT-2-3-3	28/09/2023	PFAS surrogates	13C6-PFDA (surr.)		110	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067085	Normal	
1030176	Water	2023-10-06	BT-2-5-1	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)		110	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067086	Normal	
103017													

Surrogates

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1036893	Soil	2023-11-06	B3-5-POST	19/10/2023	PFAS surrogates	13C8-PFOA		110	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047658	Normal
1036893	Water	2023-11-02	B1-4-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		110	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047587	Normal
1036893	Water	2023-11-02	B1-4-POST	19/10/2023		Extracted ISTD 1802 PFHx5		110	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047587	Normal
1036893	Water	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	(13C3-PFB5) Surrogate		110	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047606	Normal
1036893	Water	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		110	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047622	Normal
1036893	Water	2023-11-02	B3-1-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		110	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047628	Normal
1036893	Water	2023-11-02	QC19	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		110	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047661	Field_D
1036893	Water	2023-11-09	B1-1-POST_DAY_2	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		110	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047560	Normal
1036893	Water	2023-11-09	B1-3-POST_DAY_4	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		110	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047578	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_2	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		110	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047595	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_2	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		110	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047611	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_4	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		110	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047613	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_4	19/10/2023		13C8 PFOS		110	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047632	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_4	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		110	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047632	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_3	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		110	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047647	Normal
1036893	Water	2023-11-10	B1-3-POST_DAY_5	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		110	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047579	Normal
1036893	Water	2023-11-10	B1-3-POST_DAY_5	19/10/2023	PFAS surrogates	(13C3-PFB5) Surrogate		110	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047579	Normal
1036893	Water	2023-11-13	B1-3-POST_DAY_8	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		110	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047582	Normal
1036893	Water	2023-11-14	B1-3-POST_DAY_10	19/10/2023	PFAS surrogates	13C8-PFOA		110	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047584	Normal
1036893	Water	2023-11-14	B3-1-POST_DAY_10	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		110	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047638	Normal
1036504	Soil	2023-10-30	B1-6	16/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		111	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044740	Normal
1036504	Soil	2023-10-26	B2-6	17/10/2023	PFAS surrogates	(13C3-PFB5) Surrogate		111	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044746	Normal
1036504	Soil	2023-10-26	B3-4	16/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		111	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044738	Normal
1030176	Soil	2023-10-06	BT-2-0-3	28/09/2023	PFAS surrogates	(13C3-PFB5) Surrogate		111	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067077	Normal
1030176	Soil	2023-10-11	BT-1-0-1	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)		111	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067053	Normal

Surrogates

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1026894	Water	2023-09-20	W001	15/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		112	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039303	Normal
1026894	Water	2023-09-20	W005	15/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		112	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039307	Normal
1036893	Soil	2023-11-02	B1-3-POST	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		112	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047573	Normal
1036893	Soil	2023-11-02	B1-5-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		112	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047589	Normal
1036893	Soil	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		112	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047605	Normal
1036893	Soil	2023-11-02	B2-3-POST	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		112	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047608	Normal
1036893	Soil	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		112	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047621	Normal
1036893	Soil	2023-11-02	B3-4-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		112	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047656	Normal
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	PFAS surrogates	(13C4-PFHpa) Surrogate		112	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047569	Normal
1036893	Soil	2023-11-06	B1-5-POST	19/10/2023	PFAS surrogates	(13C4-PFHpa) Surrogate		112	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047588	Normal
1036893	Soil	2023-11-06	B3-1-POST	19/10/2023	PFAS surrogates	13C8-PFOA		112	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047626	Normal
1036893	Soil	2023-11-06	B3-5-POST	19/10/2023	PFAS surrogates	13C5-PFHx (surr.)		112	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047658	Normal
1036893	Water	2023-11-02	B1-2-POST	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		112	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047571	Normal
1036893	Water	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		112	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047606	Normal
1036893	Water	2023-11-02	B2-3-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		112	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047609	Normal
1036893	Water	2023-11-02	B3-3-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		112	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047644	Normal
1036893	Water	2023-11-02	B3-5-POST	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		112	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047660	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_1	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		112	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047594	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_3	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		112	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047596	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_1	19/10/2023	PFAS surrogates	(13C3-PFBs) Surrogate		112	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047629	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_1	19/10/2023	PFAS surrogates	(13C4-PFHpa) Surrogate		112	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047629	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_2	19/10/2023		13C8 PFOS		112	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047630	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_4	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		112	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047648	Normal
1036893	Water	2023-11-10	B2-3-POST_DAY_5	19/10/2023	PFAS surrogates	(13C4-PFHpa) Surrogate		112	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047614	Normal
1036893	Water	2023-11-13	B1-3-POST_DAY_8	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		112	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047582	Normal
1036893	Water	2023-11-14	B1-1-POST_DAY_10	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		112	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047568	Normal
1036893	Water	2023-11-14	B3-1-POST_DAY_10	19/10/2023	PFAS surrogates	13C5-PFHx (surr.)		112	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047638	Normal
1036893	Water	2023-11-14	B3-1-POST_DAY_7	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		112	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047635	Normal
1036504	Soil	2023-10-26	B1-1	16/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044705	Normal
1036504	Soil	2023-10-26	B1-1	16/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044705	Normal
1036504	Soil	2023-10-30	B1-3	16/10/2023	PFAS surrogates	13C6-PFDA (surr.)		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044710	Normal
1036504	Soil	2023-10-26	B2-3	16/10/2023		Extracted ISTD 1802 PFHxS		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044723	Normal
1030176	Soil	2023-10-11	BT-3-0-1	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067091	Normal
1030176	Soil	2023-10-11	BT-3-0-1	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067091	Normal
1030176	Soil	2023-10-11	BT-3-0-1	28/09/2023	PFAS surrogates	13C8-PFOA		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067091	Normal
1030176	Soil	2023-10-11	BT-3-0-1	28/09/2023		13C8 PFOS		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067091	Normal
1030176	Water	2023-10-06	BT-1-0-3	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067060	Normal
1030176	Water	2023-10-06	BT-1-0-3	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067060	Normal
1030176	Water	2023-10-06	BT-2-3-3	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067085	Normal
1030176	Water	2023-10-06	BT-2-5-1	28/09/2023		13C8 PFOS		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067086	Normal
1030176	Water	2023-10-06	BT-2-5-2	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067087	Normal
1030176	Water	2023-10-06	BT-3-0-2	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067095	Normal
1030176	Water	2023-10-06	BT-4-0-1	28/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067111	Normal
1036504	Soil	2023-10-26	B3-6	17/10/2023	PFAS surrogates	(13C4-PFHpa) Surrogate		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044751	Normal
1036504	Soil	2023-10-30	B3-6	17/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044750	Normal
1036504	Soil	2023-10-26	B3-6	17/10/2023	PFAS surrogates	13C5-PFHx (surr.)		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044751	Normal
1026894	Water	2023-09-20	W002	15/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039304	Normal
1026894	Water	2023-09-20	W003	15/09/2023	PFAS surrogates	13C8-FOSA (surr.)		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039305	Normal
1026894	Water	2023-09-20	W005	15/09/2023	PFAS surrogates	13C5-PFNA (surr.)		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039307	Normal
1026894	Water	2023-09-20	W007	15/09/2023		13C8 PFOS		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039309	Normal
1036893	Soil	2023-11-02	B1-2-POST	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047570	Normal
1036893	Soil	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047592	Normal
1036893	Soil	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047592	Normal
1036893	Soil	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047605	Normal
1036893	Soil	2023-11-02	B3-3-POST	19/10/2023	PFAS surrogates	(13C3-PFBs) Surrogate		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047643	Normal
1036893	Soil	2023-11-02	B3-4-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047656	Normal
1036893	Soil	2023-11-02	B3-4-POST	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047656	Normal
1036893	Soil	2023-11-02	B3-4-POST	19/10/2023		Extracted ISTD 1802 PFHxS		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047656	Normal
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047569	Normal
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047569	Normal
1036893	Soil	2023-11-06	B1-3-POST	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047572	Normal
1036893	Soil	2023-11-06	B1-5-POST	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047588	Normal
1036893	Soil	2023-11-06	B2-1-POST	19/10/2023		Extracted ISTD 1802 PFHxS		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047591	Normal
1036893	Soil	2023-11-06	B2-4-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047620	Normal
1036893	Water	2023-11-02	B1-5-POST	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047590	Normal
1036893	Water	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047593	Normal
1036893	Water	2023-11-02	B2-1-POST	19/10/2023		Extracted ISTD 1802 PFHxS		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047593	Normal
1036893	Water	2023-11-02	B2-3-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047609	Normal
1036893	Water	2023-11-02	B2-4-POST	19/10/2023		13C8 PFOS		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047622	Normal
1036893	Water	2023-11-02	B3-3-POST	19/10/2023	PFAS surrogates	13C8-PFOA		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047644	Normal
1036893	Water	2023-11-09	B1-1-POST_DAY_3	19/10/2023	PFAS surrogates	(13C3-PFBs) Surrogate		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047561	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_4	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047597	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_4	19/10/2023	PFAS surrogates	(13C3-PFBs) Surrogate		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047597	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_4	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047597	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_2	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047630	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_1	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047645	Normal
1036893	Water	2023-11-10	B3-3-POST_DAY_5	19/10/2023	PFAS surrogates	13C5-PFHx (surr.)		113	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047649	Normal
1036893	Water											

Surrogates														
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type		
1036504	Soil	2023-10-26	B3-6	17/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		114	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044751	Normal		
1036504	Soil	2023-10-30	B3-6	17/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		114	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044750	Normal		
1026894	Soil	2023-09-20	S008	15/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		114	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039316	Normal		
1028097	Soil	2023-09-27	W001	15/09/2023	PFAS surrogates	13C8-FOSA (surr.)		114	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049211	Normal		
1026894	Water	2023-09-20	W004	15/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		114	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039306	Normal		
1036893	Soil	2023-11-02	B1-1-POST	19/10/2023		13C8 PFOS		114	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047557	Normal		
1036893	Soil	2023-11-02	B3-5-POST	19/10/2023		13C8 PFOS		114	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047659	Normal		
1036893	Soil	2023-11-06	B1-1-POST	19/10/2023		13C8 PFOS		114	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047556	Normal		
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		114	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047569	Normal		
1036893	Soil	2023-11-06	B3-1-POST	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		114	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047626	Normal		
1036893	Soil	2023-11-06	B3-1-POST	19/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		114	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047626	Normal		
1036893	Water	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		114	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047606	Normal		
1036893	Water	2023-11-02	B2-3-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		114	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047609	Normal		
1036893	Water	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		114	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047622	Normal		
1036893	Water	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		114	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047622	Normal		
1036893	Water	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		114	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047641	Normal		
1036893	Water	2023-11-09	B1-3-POST_DAY_1	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		114	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047575	Normal		
1036893	Water	2023-11-09	B1-3-POST_DAY_2	19/10/2023		13C8 PFOS		114	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047576	Normal		
1036893	Water	2023-11-09	B1-3-POST_DAY_3	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		114	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047577	Normal		
1036893	Water	2023-11-09	B2-1-POST_DAY_2	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		114	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047595	Normal		
1036893	Water	2023-11-09	B2-1-POST_DAY_3	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		114	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047596	Normal		
1036893	Water	2023-11-09	B2-3-POST_DAY_2	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		114	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047611	Normal		
1036893	Water	2023-11-09	B2-3-POST_DAY_3	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		114	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047612	Normal		
1036893	Water	2023-11-09	B3-1-POST_DAY_4	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		114	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047632	Normal		
1036893	Water	2023-11-09	B3-3-POST_DAY_4	19/10/2023		13C8 PFOS		114	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047648	Normal		
1036893	Water	2023-11-10	B2-3-POST_DAY_6	19/10/2023		13C8 PFOS		114	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047615	Normal		
1036893	Water	2023-11-13	B1-1-POST_DAY_9	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		114	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047567	Normal		
1036893	Water	2023-11-13	B3-1-POST_DAY_8	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		114	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047636	Normal		
1036893	Water	2023-11-13	B3-3-POST_DAY_8	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		114	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047652	Normal		
1036893	Water	2023-11-14	B2-3-POST_DAY_10	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		114	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047619	Normal		
1036504	Soil	2023-10-26	B1-1	16/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		115	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044705	Normal		
1036504	Soil	2023-10-26	B2-3	16/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		115	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044723	Normal		
1036504	Soil	2023-10-30	B3-2	16/10/2023	PFAS surrogates	13C6-PFDA (surr.)		115	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044731	Normal		
1026894	Water	2023-09-20	W001	15/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		115	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039303	Normal		
1028097	Soil	2023-09-27	W001	15/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		115	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049211	Normal		
1030176	Soil	2023-10-11	BT-3-0-2	28/09/2023		Extracted ISTD 1802 PFHxS		115	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067094	Normal		
1030176	Soil	2023-10-11	BT-4-0-2	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		115	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067113	Normal		
1030176	Water	2023-10-06	BT-1-0-3	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)		115	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067060	Normal		
1030176	Water	2023-10-06	BT-2-3-1	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		115	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067083	Normal		
1030176	Water	2023-10-06	BT-3-0-2	28/09/2023		Extracted ISTD 1802 PFHxS		115	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067095	Normal		
1030176	Water	2023-10-06	BT-3-3-1	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		115	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067102	Normal		
1030176	Water	2023-10-10	BT-1-5-2	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate		115	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068	Normal		
1030176	Water	2023-10-10	BT-1-5-2	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)		115	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068	Normal		
1030176	Water	2023-10-10	BT-1-5-2	28/09/2023	PFAS surrogates	13C8-PFOA		115	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068	Normal		
1030176	Water	2023-10-10	BT-1-5-2	28/09/2023		13C8 PFOS		115	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068	Normal		
1026894	Water	2023-09-20	W003	15/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		115	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039305	Normal		
1026894	Water	2023-09-20	W006	15/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		115	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039308	Normal		
1026894	Water	2023-09-20	W006	15/09/2023		13C8 PFOS		115	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039308	Normal		
1036893	Soil	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)								

Surrogates

Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type
1036893	Soil	2023-11-02	B2-1-POST	19/10/2023		Extracted ISTD 1802 PFHxS		116	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047592	Normal
1036893	Soil	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		116	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047624	Normal
1036893	Soil	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		116	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047640	Normal
1036893	Soil	2023-11-02	B3-4-POST	19/10/2023		13C8 PFOS		116	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047656	Normal
1036893	Soil	2023-11-02	B3-5-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		116	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047659	Normal
1036893	Soil	2023-11-06	B1-1-POST	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		116	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047556	Normal
1036893	Soil	2023-11-06	B1-1-POST	19/10/2023		Extracted ISTD 1802 PFHxS		116	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047556	Normal
1036893	Soil	2023-11-06	B1-2-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		116	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047569	Normal
1036893	Soil	2023-11-06	B1-3-POST	19/10/2023	PFAS surrogates	13C8-PFOA		116	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047572	Normal
1036893	Soil	2023-11-06	B3-5-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		116	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047658	Normal
1036893	Water	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	13C8-PFOA		116	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047625	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_2	19/10/2023		13C8 PFOS		116	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047595	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_4	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		116	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047613	Normal
1036893	Water	2023-11-10	B1-1-POST_DAY_6	19/10/2023	PFAS surrogates	13C8-PFOA		116	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047564	Normal
1036893	Water	2023-11-13	B1-1-POST_DAY_9	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		116	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047567	Normal
1036893	Water	2023-11-13	B1-1-POST_DAY_9	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		116	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047567	Normal
1036893	Water	2023-11-13	B1-3-POST_DAY_9	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		116	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047583	Normal
1036893	Water	2023-11-13	B2-1-POST_DAY_9	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		116	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047602	Normal
1036893	Water	2023-11-14	B3-1-POST_DAY_10	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		116	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047638	Normal
1036893	Water	2023-11-14	B3-1-POST_DAY_10	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		116	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047638	Normal
1036504	Soil	2023-10-30	B1-3	16/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044710	Normal
1036504	Soil	2023-10-30	B2-6	17/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044745	Normal
1036504	Soil	2023-10-30	B3-2	16/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044731	Normal
1028097	Soil	2023-09-27	W001	15/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049211	Normal
1030176	Soil	2023-10-11	BT-1-0-1	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067053	Normal
1030176	Soil	2023-10-11	BT-4-0-3	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067116	Normal
1030176	Water	2023-10-06	BT-1-0-1	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067054	Normal
1030176	Water	2023-10-06	BT-1-1-1	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067061	Normal
1030176	Water	2023-10-06	BT-2-3-3	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067085	Normal
1030176	Water	2023-10-06	BT-3-1-1	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067099	Normal
1030176	Water	2023-10-06	BT-4-1-1	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067118	Normal
1030176	Water	2023-10-06	BT-4-1-3	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067120	Normal
1030176	Water	2023-10-06	BT-4-3-3	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067123	Normal
1030176	Water	2023-10-06	BT-4-5-1	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067124	Normal
1030176	Water	2023-10-10	BT-1-1-2	28/09/2023		Extracted ISTD 1802 PFHxS		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067062	Normal
1030176	Water	2023-10-10	BT-1-3-3	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067066	Normal
1026894	Water	2023-09-20	W005	15/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039307	Normal
1026894	Water	2023-09-20	W007	15/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039309	Normal
1026894	Water	2023-09-20	W008	15/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310	Normal
1036893	Soil	2023-11-02	B1-3-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047573	Normal
1036893	Soil	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047592	Normal
1036893	Soil	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047592	Normal
1036893	Soil	2023-11-02	B3-4-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047656	Normal
1036893	Soil	2023-11-02	B3-5-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047659	Normal
1036893	Soil	2023-11-06	B1-3-POST	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047572	Normal
1036893	Soil	2023-11-06	B1-4-POST	19/10/2023		13C8 PFOS		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047585	Normal
1036893	Soil	2023-11-06	B3-1-POST	19/10/2023		Extracted ISTD 1802 PFHxS		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047626	Normal
1036893	Water	2023-11-02	B1-4-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047587	Normal
1036893	Water	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047625	Normal
1036893	Water	2023-11-02	B3-3-POST	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047644	Normal
1036893	Water	2023-11-02	QC21	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047662	Field_D
1036893	Water	2023-11-02	QC23	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047663	Field_D
1036893	Water	2023-11-09	B1-3-POST_DAY_4	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047578	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_1	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047594	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_3	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047647	Normal
1036893	Water	2023-11-10	B2-3-POST_DAY_5	19/10/2023	PFAS surrogates	13C8-PFOA		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047614	Normal
1036893	Water	2023-11-10	B3-1-POST_DAY_5	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047633	Normal
1036893	Water	2023-11-10	B3-3-POST_DAY_6	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047650	Normal
1036893	Water	2023-11-13	B1-1-POST_DAY_8	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047566	Normal
1036893	Water	2023-11-13	B1-1-POST_DAY_9	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047567	Normal
1036893	Water	2023-11-13	B2-3-POST_DAY_9	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047618	Normal
1036893	Water	2023-11-14	B3-1-POST_DAY_7	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		117	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047635	Normal
1036504	Soil	2023-10-30	B2-6	17/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		118	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044745	Normal
1036504	Water	2023-10-30	B2-6	17/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		118	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044747	Normal
1036504	Water	2023-10-30	B3-1	16/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		118	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044730	Normal
1036504	Soil	2023-10-26	B3-4	16/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		118	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044738	Normal
1028097	Soil	2023-09-27	W001	15/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		118	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049211	Normal
1030176	Soil	2023-10-06	BT-2-0-1	28/09/2023		13C8 PFOS		118	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067071	Normal
1030176	Soil	2023-10-11	BT-2-0-3	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		118	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067078	Normal
1030176	Water	2023-10-06	BT-2-5-1	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		118	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067086	Normal
1030176	Water	2023-10-06	BT-3-5-2	28/09/2023		Extracted ISTD 1802 PFHxS		118	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067106	Normal
1030176	Water	2023-10-06	BT-4-3-2	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		118	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067122	Normal
1030176	Water	2023-10-06	BT-4-5-1	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		118	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067124	Normal
1030176	Water	2023-10-10	BT-2-1-2	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate		118	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067081	Normal
1030176	Water	2023-10-10	BT-2-1-2	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)		118	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067081	Normal
1030176	Water	2023-10-10	BT-2-1-2	28/09/2023	PFAS surrogates	13C8-PFOA		118	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067081	Normal
1030176	Water	2023-10-10	BT-2-1-2	28/09/2023		13C8 PFOS		118	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067081	Normal
1026894	Water	2023-09-20</										

Surrogates														
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type		
1036893	Soil	2023-11-06	B3-5-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		118	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047658	Normal		
1036893	Water	2023-11-02	B1-5-POST	19/10/2023	PFAS surrogates	13C8-PFOA		118	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047590	Normal		
1036893	Water	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		118	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047593	Normal		
1036893	Water	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		118	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047606	Normal		
1036893	Water	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		118	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047622	Normal		
1036893	Water	2023-11-02	QC21	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		118	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047662	Field_D		
1036893	Water	2023-11-09	B1-1-POST_DAY_2	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		118	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047560	Normal		
1036893	Water	2023-11-09	B1-3-POST_DAY_2	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		118	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047576	Normal		
1036893	Water	2023-11-09	B3-1-POST_DAY_4	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		118	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047632	Normal		
1036893	Water	2023-11-09	B3-3-POST_DAY_2	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		118	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047646	Normal		
1036893	Water	2023-11-09	B3-3-POST_DAY_2	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		118	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047646	Normal		
1036893	Water	2023-11-10	B1-1-POST_DAY_6	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		118	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047564	Normal		
1036893	Water	2023-11-10	B1-3-POST_DAY_6	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		118	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047580	Normal		
1036893	Water	2023-11-10	B2-3-POST_DAY_6	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)		118	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047615	Normal		
1036893	Water	2023-11-13	B2-1-POST_DAY_9	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		118	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047602	Normal		
1036893	Water	2023-11-13	B3-1-POST_DAY_8	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		118	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047636	Normal		
1036893	Water	2023-11-13	B3-3-POST_DAY_9	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		118	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047653	Normal		
1036893	Water	2023-11-14	B2-1-POST_DAY_10	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		118	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047603	Normal		
1036504	Soil	2023-10-26	B1-3	16/10/2023	PFAS surrogates	13C5-PFNA (surr.)		119	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044711	Normal		
1030176	Soil	2023-10-06	BT-2-0-2	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		119	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067074	Normal		
1030176	Soil	2023-10-11	BT-1-0-2	28/09/2023	PFAS surrogates	13C2-PFDoDA (surr.)		119	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067056	Normal		
1030176	Water	2023-10-06	BT-2-0-1	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		119	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067073	Normal		
1030176	Water	2023-10-06	BT-2-0-2	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		119	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067076	Normal		
1030176	Water	2023-10-06	BT-3-0-2	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)		119	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067095	Normal		
1030176	Water	2023-10-06	BT-3-5-2	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		119	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067106	Normal		
1030176	Water	2023-10-06	BT-3-5-2	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		119	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067106	Normal		
1030176	Water	2023-10-06	BT-4-0-3	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		119	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067117	Normal		
1030176	Water	2023-10-06	BT-4-3-3	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		119	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067123	Normal		
1030176	Water	2023-10-06	BT-4-5-1	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)		119	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067124	Normal		
1030176	Water	2023-10-06	BT-4-5-1	28/09/2023	PFAS surrogates	13C8-PFOA		119	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067124	Normal		
1030176	Water	2023-10-10	BT-1-5-3	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		119	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067069	Normal		
1036504	Soil	2023-10-30	B3-6	17/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		119	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044750	Normal		
1036504	Soil	2023-10-30	QC01	17/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		119	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044743	Field_D		
1026894	Water	2023-09-20	W001	15/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)		119	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039303	Normal		
1036893	Soil	2023-11-02	B2-3-POST	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		119	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047608	Normal		
1036893	Soil	2023-11-06	B2-2-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		119	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047604	Normal		
1036893	Soil	2023-11-06	B2-4-POST	19/10/2023		Extracted ISTD 1802 PFHxS		119	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047620	Normal		
1036893	Water	2023-11-02	QC21	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		119	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047662	Field_D		
1036893	Water	2023-11-09	B1-1-POST_DAY_1	19/10/2023		Extracted ISTD 1802 PFHxS		119	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047559	Normal		
1036893	Water	2023-11-09	B1-1-POST_DAY_2	19/10/2023		Extracted ISTD 1802 PFHxS		119	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047560	Normal		
1036893	Water	2023-11-09	B1-3-POST_DAY_3	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		119	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047577	Normal		
1036893	Water	2023-11-09	B2-3-POST_DAY_3	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		119	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047612	Normal		
1036893	Water	2023-11-09	B2-3-POST_DAY_3	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		119	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047612	Normal		
1036893	Water	2023-11-09	B3-1-POST_DAY_3	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		119	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047631	Normal		
1036893	Water	2023-11-09	B3-3-POST_DAY_2	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		119	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047646	Normal		
1036893	Water	2023-11-09	B3-3-POST_DAY_3	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		119	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047647	Normal		
1036893	Water	2023-11-10	B1-1-POST_DAY_5	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		119	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047563	Normal		
1036893	Water	2023-11-10	B1-3-POST_DAY_6	19/10/2023		13C8 PFOS		119	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047580			

Surrogates													
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type	
1036504	Water	2023-10-30	B3-3	16/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		121	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044736	Normal	
1030176	Soil	2023-10-06	BT-1-0-2	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		121	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067055	Normal	
1030176	Soil	2023-10-06	BT-1-0-2	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		121	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067055	Normal	
1030176	Soil	2023-10-06	BT-2-0-1	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		121	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067071	Normal	
1030176	Soil	2023-10-11	BT-4-0-2	28/09/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		121	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067113	Normal	
1030176	Water	2023-10-06	BT-1-0-3	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)		121	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067060	Normal	
1030176	Water	2023-10-06	BT-1-1-1	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)		121	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067061	Normal	
1030176	Water	2023-10-06	BT-3-5-2	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		121	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067106	Normal	
1030176	Water	2023-10-06	BT-4-0-2	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		121	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067114	Normal	
1030176	Water	2023-10-06	BT-4-0-3	28/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		121	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067117	Normal	
1030176	Water	2023-10-06	BT-4-1-3	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		121	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067120	Normal	
1030176	Water	2023-10-06	BT-4-3-3	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		121	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067123	Normal	
1030176	Water	2023-10-06	BT-4-5-1	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)		121	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067124	Normal	
1028097	Soil	2023-09-27	W001	15/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		121	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0049211	Normal	
1026894	Water	2023-09-20	W002	15/09/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		121	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039304	Normal	
1026894	Water	2023-09-20	W004	15/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		121	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039306	Normal	
1026894	Water	2023-09-20	W006	15/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		121	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039308	Normal	
1036893	Soil	2023-11-02	B1-5-POST	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		121	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047589	Normal	
1036893	Soil	2023-11-02	B3-5-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		121	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047659	Normal	
1036893	Soil	2023-11-02	B3-5-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		121	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047659	Normal	
1036893	Soil	2023-11-06	B1-5-POST	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		121	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047588	Normal	
1036893	Water	2023-11-02	B1-4-POST	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		121	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047587	Normal	
1036893	Water	2023-11-02	B1-5-POST	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		121	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047590	Normal	
1036893	Water	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		121	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047593	Normal	
1036893	Water	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		121	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047641	Normal	
1036893	Water	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		121	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047641	Normal	
1036893	Water	2023-11-02	QC23	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		121	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047663	Field_D	
1036893	Water	2023-11-09	B1-3-POST_DAY_4	19/10/2023	PFAS surrogates	13C8-PFOA		121	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047578	Normal	
1036893	Water	2023-11-09	B2-1-POST_DAY_3	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		121	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047596	Normal	
1036893	Water	2023-11-09	B2-3-POST_DAY_1	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		121	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047610	Normal	
1036893	Water	2023-11-09	B2-3-POST_DAY_4	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		121	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047613	Normal	
1036893	Water	2023-11-09	B3-1-POST_DAY_2	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		121	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047630	Normal	
1036504	Soil	2023-10-26	B2-1	16/10/2023	PFAS surrogates	13C6-PFDA (surr.)		122	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044717	Normal	
1036504	Soil	2023-10-30	B3-1	16/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		122	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044728	Normal	
1030176	Soil	2023-10-11	BT-1-0-2	28/09/2023		Extracted ISTD 1802 PFHxS		122	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067056	Normal	
1030176	Soil	2023-10-11	BT-1-0-3	28/09/2023		Extracted ISTD 1802 PFHxS		122	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067059	Normal	
1030176	Water	2023-10-06	BT-1-0-3	28/09/2023		Extracted ISTD 1802 PFHxS		122	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067060	Normal	
1030176	Water	2023-10-06	BT-2-3-1	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate		122	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067083	Normal	
1030176	Water	2023-10-06	BT-2-3-3	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		122	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067085	Normal	
1030176	Water	2023-10-06	BT-3-0-2	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		122	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067095	Normal	
1030176	Water	2023-10-10	BT-1-5-2	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate		122	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068	Normal	
1030176	Water	2023-10-10	BT-1-5-2	28/09/2023		Extracted ISTD 1802 PFHxS		122	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067068	Normal	
1030176	Water	2023-10-10	BT-1-5-3	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		122	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067069	Normal	
1036504	Soil	2023-10-26	B3-2	16/10/2023	PFAS surrogates	13C5-PFNA (surr.)		122	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0044732	Normal	
1026894	Water	2023-09-20	W003	15/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		122	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039305	Normal	
1026894	Water	2023-09-20	W004	15/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		122	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039306	Normal	
1036893	Soil	2023-11-02	B1-1-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		122	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047557	Normal	
1036893	Soil	2023-11-02	B1-2-POST	19/10/2023		Extracted ISTD 1802 PFHxS		122	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047570	Normal	
1036893	Soil	2023-11-02	B1-2-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		122	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047570	Normal	
1036893	Soil	2023-11-02	B1-3-POST	19/10/2023		Extracted ISTD 1802 PFHxS		122	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047573	Normal	
1036893	Soil	2023-11-02	B2-3-POST	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)		122	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047608	Normal	
1036893	Soil	2023-11-02	B3-4-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		122	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047656	Normal	
1036893	Soil	2023-11-06	B1-3-POST	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		122	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047572	Normal	
1036893	Soil	2023-11-06	B3-4-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		122	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047655	Normal	
1036893	Water	2023-11-02	B1-5-POST	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		122	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047590	Normal	
1036893	Water	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	13C8-PFOA		122	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047622	Normal	
1036893	Water	2023-11-02	B3-4-POST	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		122	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047657	Normal	
1036893	Water	2023-11-09	B2-1-POST_DAY_2	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		122	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047595	Normal	
1036893	Water	2023-11-09	B2-3-POST_DAY_2	19/10/2023		13C8 PFOS		122	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047611	Normal	
1036893	Water	2023-11-09	B3-3-POST_DAY_1	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		122	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047645	Normal	
1036893	Water	2023-11-10	B1-3-POST_DAY_6	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)		122	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047580	Normal	
1036893	Water	2023-11-13	B1-3-POST_DAY_9	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		122	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-0c0047583	Normal	
1030176	Soil	2023-10-11	BT-1-0-1	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		123	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067053	Normal	
1030176	Soil	2023-10-11	BT-1-0-1	28/09/2023	PFAS surrogates	D7-N-MeFOSE (surr.)		123	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067053	Normal	
1030176	Soil	2023-10-11	BT-3-0-3	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		123	20	130 L			

Surrogates													Lab Sample ID	Sample Type
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name				
1036893	Soil	2023-11-06	B3-5-POST	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	123	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047658	Normal
1036893	Water	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)	123	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047625	Normal
1036893	Water	2023-11-02	B3-1-POST	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	123	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047628	Normal
1036893	Water	2023-11-02	B3-4-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)	123	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047657	Normal
1036893	Water	2023-11-09	B1-1-POST_DAY_4	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)	123	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047562	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_3	19/10/2023	PFAS surrogates	13C8-PFOA	123	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047596	Normal
1036893	Water	2023-11-09	B2-1-POST_DAY_3	19/10/2023	PFAS surrogates	Extracted ISTD 1802 PFHxS	123	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047596	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_2	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate	123	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047646	Normal
1036893	Water	2023-11-10	B2-1-POST_DAY_6	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	123	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047599	Normal
1036893	Water	2023-11-10	B2-3-POST_DAY_6	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	123	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047615	Normal
1036893	Water	2023-11-13	B3-1-POST_DAY_8	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)	123	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047636	Normal
1030176	Soil	2023-10-06	BT-2-0-3	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067077	Normal
1030176	Soil	2023-10-11	BT-1-0-1	28/09/2023	PFAS surrogates	Extracted ISTD 1802 PFHxS	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067053	Normal
1030176	Soil	2023-10-11	BT-1-0-1	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067053	Normal
1030176	Soil	2023-10-11	BT-1-0-3	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067059	Normal
1030176	Soil	2023-10-11	BT-4-0-3	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067116	Normal
1030176	Water	2023-10-06	BT-1-1-1	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067061	Normal
1030176	Water	2023-10-06	BT-2-3-3	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067085	Normal
1030176	Water	2023-10-06	BT-3-0-2	28/09/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067095	Normal
1030176	Water	2023-10-06	BT-3-3-1	28/09/2023	PFAS surrogates	13C8 PFOS	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067102	Normal
1030176	Water	2023-10-06	BT-3-3-1	28/09/2023	PFAS surrogates	Extracted ISTD 1802 PFHxS	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067102	Normal
1030176	Water	2023-10-10	BT-2-1-2	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067081	Normal
1036504	Soil	2023-10-26	B1-1	16/10/2023	PFAS surrogates	D7-N-MeFOSE (surr.)	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044705	Normal
1036504	Soil	2023-10-30	B3-4	16/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044737	Normal
1036893	Soil	2023-11-02	B1-2-POST	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047570	Normal
1036893	Soil	2023-11-02	B1-2-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047570	Normal
1036893	Soil	2023-11-02	B2-3-POST	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047608	Normal
1036893	Soil	2023-11-02	B3-3-POST	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047643	Normal
1036893	Soil	2023-11-02	B3-4-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047656	Normal
1036893	Soil	2023-11-06	B1-4-POST	19/10/2023	PFAS surrogates	Extracted ISTD 1802 PFHxS	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047585	Normal
1036893	Soil	2023-11-06	B1-5-POST	19/10/2023	PFAS surrogates	13C8 PFOS	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047588	Normal
1036893	Water	2023-11-02	B1-5-POST	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047590	Normal
1036893	Water	2023-11-02	B2-3-POST	19/10/2023	PFAS surrogates	Extracted ISTD 1802 PFHxS	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047609	Normal
1036893	Water	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	Extracted ISTD 1802 PFHxS	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047622	Normal
1036893	Water	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047625	Normal
1036893	Water	2023-11-02	B2-5-POST	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047625	Normal
1036893	Water	2023-11-02	B3-3-POST	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047644	Normal
1036893	Water	2023-11-09	B1-3-POST_DAY_4	19/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047578	Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_2	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047611	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_1	19/10/2023	PFAS surrogates	Extracted ISTD 1802 PFHxS	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047629	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_2	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047630	Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_4	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047632	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_3	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047647	Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_4	19/10/2023	PFAS surrogates	Extracted ISTD 1802 PFHxS	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047648	Normal
1036893	Water	2023-11-10	B1-3-POST_DAY_6	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047580	Normal
1036893	Water	2023-11-13	B1-3-POST_DAY_8	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047582	Normal
1036893	Water	2023-11-13	B2-1-POST_DAY_8	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047601	Normal
1036893	Water	2023-11-13	B2-1-POST_DAY_9	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047602	Normal
1036893	Water	2023-11-14	B3-3-POST_DAY_7	19/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	124	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047651	Normal
1036504	Soil	2023-10-30	B1-3	16/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	125	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044710	Normal
1036504	Soil	2023-10-30	B3-2	16/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	125	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044731	Normal
1030176	Soil	2023-10-06	BT-4-0-1	28/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	125	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067109	Normal
1030176	Soil	2023-10-11	BT-4-0-2	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	125	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067113	Normal
1030176	Water	2023-10-06	BT-1-0-3	28/09/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	125	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067060	Normal
1030176	Water	2023-10-06	BT-2-0-2	28/09/2023	PFAS surrogates	13C8-PFOA	125	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067076	Normal
1030176	Water	2023-10-06	BT-2-5-1	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	125	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067086	Normal
1030176	Water	2023-10-06	BT-3-0-2	28/09/2023	PFAS surrogates	13C5-PFHxA (surr.)	125	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067095	Normal
1030176	Water	2023-10-06	BT-3-5-1	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)	125	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067105	Normal
1030176	Water	2023-10-06	BT-3-5-1	28/09/2023	PFAS surrogates	13C8 PFOS	125	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067105	Normal
1030176	Water	2023-10-06	BT-4-1-3	28/09/2023	PFAS surrogates	13C8 PFOS	125	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067120	Normal
1030176	Water	2023-10-06	BT-4-5-1	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)	125	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0067124	Normal
1036504	Soil	2023-10-30	QC03	17/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate	125	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0044748	Field_D
1026894	Water	2023-09-20	W001	15/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate	125	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0039303	Normal
1026894	Water	2023-09-20	W007	15/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	125	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Se0039309	Normal
1036893	Soil	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	125	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047592	Normal
1036893	Soil	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	13C8 PFOS	125	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047605	Normal
1036893	Soil	2023-11-02	B2-3-POST	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	125	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047608	Normal
1036893	Soil	2023-11-02	B2-3-POST	19/10/2023	PFAS surrogates	13C8 PFOS	125	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047608	Normal
1036893	Soil	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)	125	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047621	Normal
1036893	Soil	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	Extracted ISTD 1802 PFHxS	125	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047621	Normal
1036893	Water	2023-11-09	B1-1-POST_DAY_3	19/10/2023	PFAS surrogates	Extracted ISTD 1802 PFHxS	125	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			B23-Oc0047561	Normal
1036893	Water	202												

Surrogates													
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID	Sample Type	
1036893	Soil	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		126	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047621	Normal	
1036893	Soil	2023-11-06	B3-5-POST	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		126	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047658	Normal	
1036893	Soil	2023-11-06	B3-5-POST	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		126	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047658	Normal	
1036893	Water	2023-11-02	B1-4-POST	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		126	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047587	Normal	
1036893	Water	2023-11-02	B2-3-POST	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		126	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047609	Normal	
1036893	Water	2023-11-02	B2-3-POST	19/10/2023	PFAS surrogates	13C8-PFOA		126	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047609	Normal	
1036893	Water	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		126	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047622	Normal	
1036893	Water	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		126	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047641	Normal	
1036893	Water	2023-11-02	B3-3-POST	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		126	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047644	Normal	
1036893	Water	2023-11-02	QC21	19/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		126	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047662	Field_D	
1036893	Water	2023-11-09	B1-1-POST_DAY_1	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		126	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047559	Normal	
1036893	Water	2023-11-09	B1-3-POST_DAY_3	19/10/2023		Extracted ISTD 1802 PFHxS		126	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047577	Normal	
1036893	Water	2023-11-09	B2-1-POST_DAY_4	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		126	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047597	Normal	
1036893	Water	2023-11-09	B2-3-POST_DAY_3	19/10/2023		Extracted ISTD 1802 PFHxS		126	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047612	Normal	
1036893	Water	2023-11-09	B2-3-POST_DAY_4	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		126	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047613	Normal	
1036893	Water	2023-11-09	B3-1-POST_DAY_1	19/10/2023	PFAS surrogates	13C8-PFOA		126	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047629	Normal	
1036893	Water	2023-11-09	B3-1-POST_DAY_2	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		126	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047630	Normal	
1036893	Water	2023-11-09	B3-3-POST_DAY_4	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		126	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047648	Normal	
1036893	Water	2023-11-09	B3-3-POST_DAY_4	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		126	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047648	Normal	
1036893	Water	2023-11-10	B1-3-POST_DAY_5	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		126	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047579	Normal	
1036893	Water	2023-11-13	B1-3-POST_DAY_9	19/10/2023	PFAS surrogates	13C8-PFOA		126	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047583	Normal	
1036504	Soil	2023-10-30	B1-1	16/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044704	Normal	
1036504	Soil	2023-10-30	B1-6	16/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044740	Normal	
1030176	Water	2023-10-06	BT-3-0-2	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067095	Normal	
1030176	Water	2023-10-06	BT-3-0-2	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067095	Normal	
1030176	Water	2023-10-06	BT-3-5-2	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067106	Normal	
1030176	Water	2023-10-06	BT-4-3-3	28/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067123	Normal	
1030176	Water	2023-10-06	BT-4-5-2	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067125	Normal	
1030176	Water	2023-10-10	BT-1-1-2	28/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067062	Normal	
1036504	Soil	2023-10-26	B2-3	16/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044723	Normal	
1036504	Water	2023-10-30	B2-3	16/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044724	Normal	
1036504	Water	2023-10-30	B3-6	17/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044752	Normal	
1026894	Water	2023-09-20	W002	15/09/2023		Extracted ISTD 1802 PFHxS		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039304	Normal	
1026894	Water	2023-09-20	W006	15/09/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039308	Normal	
1036893	Soil	2023-11-02	B1-2-POST	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047570	Normal	
1036893	Soil	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047605	Normal	
1036893	Soil	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047605	Normal	
1036893	Soil	2023-11-02	B3-4-POST	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047656	Normal	
1036893	Soil	2023-11-06	B1-1-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047556	Normal	
1036893	Soil	2023-11-06	B3-3-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047642	Normal	
1036893	Water	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047606	Normal	
1036893	Water	2023-11-09	B1-1-POST_DAY_4	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047562	Normal	
1036893	Water	2023-11-09	B1-3-POST_DAY_1	19/10/2023	PFAS surrogates	(13C3-PFBS) Surrogate		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047575	Normal	
1036893	Water	2023-11-09	B1-3-POST_DAY_4	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047578	Normal	
1036893	Water	2023-11-09	B2-1-POST_DAY_1	19/10/2023		Extracted ISTD 1802 PFHxS		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047594	Normal	
1036893	Water	2023-11-09	B2-1-POST_DAY_2	19/10/2023		Extracted ISTD 1802 PFHxS		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047595	Normal	
1036893	Water	2023-11-09	B2-1-POST_DAY_4	19/10/2023		Extracted ISTD 1802 PFHxS		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047597	Normal	
1036893	Water	2023-11-09	B2-3-POST_DAY_1	19/10/2023	PFAS surrogates	13C8-PFOA		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047610	Normal	
1036893	Water	2023-11-09	B2-3-POST_DAY_1	19/10/2023		Extracted ISTD 1802 PFHxS		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047610	Normal	
1036893	Water	2023-11-09	B3-1-POST_DAY_3	19/10/2023	PFAS surrogates	13C8-PFOA		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047631	Normal	
1036893	Water	2023-11-10	B1-1-POST_DAY_5	19/10/2023	PFAS surrogates	13C5-PFHxA (surr.)		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047563	Normal	
1036893	Water	2023-11-13	B1-3-POST_DAY_8	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047582	Normal	
1036893	Water	2023-11-13	B1-3-POST_DAY_8	19/10/2023	PFAS surrogates	13C8-PFOA		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047582	Normal	
1036893	Water	2023-11-14	B2-3-POST_DAY_10	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047619	Normal	
1036893	Water	2023-11-14	B3-3-POST_DAY_7	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)		127	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047651	Normal	
1036504	Soil	2023-10-26	B1-1	16/10/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		128	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044705	Normal	
1026894	Soil	2023-09-20	S008	15/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		128	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039316	Normal	
1030176	Soil	2023-10-06	BT-2-0-2	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate		128	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067074	Normal	
1030176	Water	2023-10-06	BT-1-1-1	28/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)		128	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067061	Normal	
1030176	Water	2023-10-06	BT-3-0-3	28/09/2023		Extracted ISTD 1802 PFHxS		128	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067098	Normal	
1030176	Water	2023-10-06	BT-3-3-1	28/09/2023	PFAS surrogates	13C8-FOSA (surr.)		128	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067102	Normal	
1030176	Water	2023-10-06	BT-3-5-1	28/09/2023	PFAS surrogates	(13C4-PFHpA) Surrogate		128	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067105	Normal	
1030176	Water	2023-10-10	BT-1-3-3	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)		128	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067066	Normal	
1026894	Water	2023-09-20	W008	15/09/2023	PFAS surrogates	(13C2-6:2FTS) Surrogate		128	20	130 LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039310	Normal	
1036893	Soil	2023-11-02	B1-2-POST	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)		128	20				

Surrogates											
Lab Report Number	Matrix Type	Analysis Batch	Field ID	Sampled Date/Time	Chem Group	Chem Name	Result	LCL	UCL	Method Name	Lab Sample ID Sample Type
1030176	Water	2023-10-06	BT-3-0-2	28/09/2023	PFAS surrogates	13C2-PFUnDA (surr.)	129	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067095 Normal
1030176	Water	2023-10-06	BT-3-0-3	28/09/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	129	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067098 Normal
1030176	Water	2023-10-10	BT-1-3-3	28/09/2023	PFAS surrogates	(13C4-PFBA) Surrogate	129	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067066 Normal
1030176	Water	2023-10-10	BT-1-3-3	28/09/2023	PFAS surrogates	13C5-PFNA (surr.)	129	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067066 Normal
1030176	Water	2023-10-10	BT-1-3-3	28/09/2023	PFAS surrogates	13C8-PFOA	129	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067066 Normal
1030176	Water	2023-10-10	BT-1-3-3	28/09/2023		13C8 PFOS	129	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067066 Normal
1036504	Soil	2023-10-30	QC01	17/10/2023	PFAS surrogates	(13C2-PFTeDA) Surrogate	129	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044743 Field_D
1026894	Water	2023-09-20	W009	15/09/2023	PFAS surrogates	13C5-PFHxA (surr.)	129	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039311 Normal
1036893	Soil	2023-11-02	B1-1-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)	129	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047557 Normal
1036893	Soil	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	129	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047621 Normal
1036893	Soil	2023-11-06	B1-3-POST	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)	129	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047572 Normal
1036893	Soil	2023-11-06	B3-5-POST	19/10/2023	PFAS surrogates	13C2-PFDoDA (surr.)	129	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047658 Normal
1036893	Water	2023-11-02	B2-1-POST	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	129	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047593 Normal
1036893	Water	2023-11-02	B2-3-POST	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)	129	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047609 Normal
1036893	Water	2023-11-02	B3-3-POST	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)	129	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047644 Normal
1036893	Water	2023-11-02	B3-4-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSA (surr.)	129	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047657 Normal
1036893	Water	2023-11-02	QC21	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	129	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047662 Field_D
1036893	Water	2023-11-09	B1-1-POST_DAY_2	19/10/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	129	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047560 Normal
1036893	Water	2023-11-09	B1-1-POST_DAY_4	19/10/2023		Extracted ISTD 1802 PFHxS	129	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047562 Normal
1036893	Water	2023-11-09	B1-3-POST_DAY_3	19/10/2023	PFAS surrogates	13C8-PFOA	129	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047577 Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_4	19/10/2023		Extracted ISTD 1802 PFHxS	129	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047632 Normal
1036893	Water	2023-11-09	B3-3-POST_DAY_4	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)	129	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047648 Normal
1036893	Water	2023-11-14	B1-3-POST_DAY_10	19/10/2023	PFAS surrogates	(13C5-PFPeA) Surrogate	129	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047584 Normal
1036504	Soil	2023-10-30	B1-6	16/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	130	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044740 Normal
1036504	Soil	2023-10-26	B3-4	16/10/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	130	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044738 Normal
1026894	Soil	2023-09-20	S006	15/09/2023	PFAS surrogates	(13C2-8:2FTS) Surrogate	130	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039315 Normal
1026894	Water	2023-09-20	W002	15/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate	130	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039304 Normal
1030176	Soil	2023-10-06	BT-1-0-1	28/09/2023		13C8 PFOS	130	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067052 Normal
1030176	Water	2023-10-06	BT-1-1-1	28/09/2023	PFAS surrogates	13C2-10:2 FTSA (surr.)	130	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067061 Normal
1030176	Water	2023-10-06	BT-2-3-2	28/09/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	130	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067084 Normal
1030176	Water	2023-10-10	BT-1-3-3	28/09/2023		Extracted ISTD 1802 PFHxS	130	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067066 Normal
1030176	Water	2023-10-10	BT-2-1-2	28/09/2023		Extracted ISTD 1802 PFHxS	130	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0067081 Normal
1026894	Water	2023-09-20	W005	15/09/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	130	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039307 Normal
1026894	Water	2023-09-20	W009	15/09/2023	PFAS surrogates	(13C3-PFBS) Surrogate	130	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Se0039311 Normal
1036893	Soil	2023-11-02	B1-2-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	130	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047570 Normal
1036893	Soil	2023-11-02	B1-3-POST	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)	130	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047573 Normal
1036893	Soil	2023-11-02	B1-3-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSAA (surr.)	130	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047573 Normal
1036893	Soil	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)	130	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047605 Normal
1036893	Soil	2023-11-02	B2-2-POST	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)	130	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047605 Normal
1036893	Soil	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	130	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047621 Normal
1036893	Soil	2023-11-02	B2-4-POST	19/10/2023	PFAS surrogates	D5-N-EtFOSAA (surr.)	130	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047621 Normal
1036893	Soil	2023-11-02	B3-4-POST	19/10/2023	PFAS surrogates	13C8-FOSA (surr.)	130	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047656 Normal
1036893	Water	2023-11-02	B2-3-POST	19/10/2023		13C8 PFOS	130	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047609 Normal
1036893	Water	2023-11-02	B3-1-POST	19/10/2023	PFAS surrogates	13C5-PFNA (surr.)	130	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047628 Normal
1036893	Water	2023-11-02	B3-1-POST	19/10/2023		Extracted ISTD 1802 PFHxS	130	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047628 Normal
1036893	Water	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	(13C4-PFHpA) Surrogate	130	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047641 Normal
1036893	Water	2023-11-02	B3-2-POST	19/10/2023	PFAS surrogates	D3-N-MeFOSA (surr.)	130	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047641 Normal
1036893	Water	2023-11-09	B1-1-POST_DAY_2	19/10/2023	PFAS surrogates	13C8-PFOA	130	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047560 Normal
1036893	Water	2023-11-09	B1-3-POST_DAY_4	19/10/2023		13C8 PFOS	130	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047578 Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_2	19/10/2023	PFAS surrogates	(13C2-4:2FTS) Surrogate	130	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047611 Normal
1036893	Water	2023-11-09	B2-3-POST_DAY_3	19/10/2023	PFAS surrogates	13C8-PFOA	130	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047612 Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_4	19/10/2023	PFAS surrogates	(13C4-PFBA) Surrogate	130	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047632 Normal
1036893	Water	2023-11-09	B3-1-POST_DAY_4	19/10/2023	PFAS surrogates	13C6-PFDA (surr.)	130	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047632 Normal
1036893	Water	2023-11-13	B1-1-POST_DAY_8	19/10/2023	PFAS surrogates	13C2-PFUnDA (surr.)	130	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0047566 Normal
1036504	Soil	2023-10-30	B1-2	16/10/2023	PFAS surrogates	D9-N-EtFOSE (surr.)	72	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044707 Normal
1036504	Soil	2023-10-30	B1-2	16/10/2023		Extracted ISTD 1802 PFHxS	78	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044707 Normal
1036504	Water	2023-10-30	B1-2	16/10/2023		Extracted ISTD 1802 PFHxS	89	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044709 Normal
1036504	Soil	2023-10-26	B1-2	16/10/2023		Extracted ISTD 1802 PFHxS	110	20	130	LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	B23-Oc0044708 Normal

Surrogates. Where no lab LCL and UCL is available, user defined limits between 60% and 140% have been adopted for non-compliance.

Appendix H – Sludge Testing Results

CERTIFICATE OF ANALYSIS

Work Order : **EB2237288**
Client : **HI QUALITY**
Contact : **SEAN HARROLD**
Address :
Telephone :
Project : **Treated Solid Waste**
Order number :
C-O-C number : **46325**
Sampler : **JASON WELCH, SEAN HARROLD**
Site : **Yatala WTS**
Quote number : **EN333 - ALS Compass Sites**
No. of samples received : **7**
No. of samples analysed : **7**

Page : 1 of 20
Laboratory : Environmental Division Brisbane
Contact : Customer Services EB
Address : 2 Byth Street Stafford QLD Australia 4053
Telephone : +61-7-3243 7222
Date Samples Received : 13-Dec-2022 16:36
Date Analysis Commenced : 14-Dec-2022
Issue Date : 23-Dec-2022 15:57



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
- Descriptive 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.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Celeste Tong	Approved Asbestos Identifier	Melbourne Asbestos, Springvale, VIC
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Mark Hallas	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Matt Frost	Assistant Laboratory Manager	Brisbane Organics, Stafford, QLD
Sarah Ashworth	Laboratory Manager - Brisbane	Brisbane Organics, Stafford, QLD



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.

- EG048G (Hexavalent Chromium by Alkaline Digestion): Some samples were diluted due to matrix interference. LOR adjusted accordingly.
- EP231X - Per- and Polyfluoroalkyl Substances (PFAS): Samples received in 20ml or 125ml bottles have been tested in accordance with the QSM5.3 compliant, NATA accredited method. 60mL or 250mL bottles have been tested to the legacy QSM 5.1 aligned, NATA accredited method.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EG048G (Hexavalent Chromium by Alkaline Digestion): Sample EB2237288_001 (BN0692) Shows poor matrix spike recovery due to matrix interference. Confirmed by re-extraction and re-analysis.
- EP231X PFAS: Particular samples required dilution prior to analysis due to matrix interferences. LOR values have been adjusted accordingly.
- EP231X (TOP) PFAS TOPA: Samples 'BN0693', 'BN0694' and 'BN0695' required dilution prior to extraction due to matrix interferences. LOR values have been adjusted accordingly.
- EP231X(TOP) PFAS TOPA: Sample EB2237158_013 shows poor duplicate results due to sample heterogeneity. Confirmed by visual inspection.
- EP231X PFAS: The LORs of PFBA & PFPeA have been raised for particular samples due to matrix interference.
- EG005T (Total Metals by ICP-AES): BN0692 (EB2237288-001) shows poor duplicate results due to sample heterogeneity. This has been confirmed by visual inspection.
- EP071 Semivolatile TPH: Sample "EB2237377_026" shows poor matrix spike recovery due to heterogeneity. Confirmed by visual inspection of the sample.
- EA200 'Am' Amosite (brown asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)
- EA200 'Trace' - Asbestos fibres ("Free Fibres") detected by trace analysis per AS4964. The result can be interpreted that the sample contains detectable 'respirable' asbestos fibres
- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.
- EA200 Legend
- EA200 'Ch' Chrysotile (white asbestos)
- EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.
- EA200: For samples larger than 30g, the <2mm fraction may be sub-sampled prior to trace analysis as outlined in ISO23909:2008(E) Sect 6.3.2-2
- EA200: 'Yes' - Asbestos detected by polarised light microscopy including dispersion staining.
- EA200: 'No*' - No asbestos found, at the reporting limit of 0.1g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at concentrations estimated to be below 0.1g/kg.
- EA200: 'No' - No asbestos found at the reporting limit 0.1g/kg, by polarised light microscopy including dispersion staining.



- 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.
- EN33: Where leachable PFAS analysis is requested, centrifugation rather than pressure filtration is used as the default approach for removal of particulates, in line with AS 4439.3.



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN0692	BN0693	BN0694	BN0695	BN0697
Sampling date / time				13-Dec-2022 10:45	13-Dec-2022 10:46	13-Dec-2022 10:47	13-Dec-2022 10:48	13-Dec-2022 10:48
Compound	CAS Number	LOR	Unit	EB2237288-001	EB2237288-002	EB2237288-003	EB2237288-004	EB2237288-005
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	8.2	15.4	16.2	14.9	14.8
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	----	----	No	----	----
Asbestos (Trace)	1332-21-4	5	Fibres	----	----	No	----	----
Asbestos Type	1332-21-4	-	--	----	----	-	----	----
Sample weight (dry)	----	0.01	g	----	----	36.9	----	----
APPROVED IDENTIFIER:	----	-	--	----	----	C. TONG	----	----
Synthetic Mineral Fibre	----	-	--	----	----	No	----	----
Organic Fibre	----	-	--	----	----	Yes	----	----
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	8	18	21	28	28
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	6	14	11	9	12
Copper	7440-50-8	5	mg/kg	24	31	41	34	60
Lead	7439-92-1	5	mg/kg	22	28	23	30	76
Nickel	7440-02-0	2	mg/kg	5	12	9	20	17
Zinc	7440-66-6	5	mg/kg	92	203	197	234	461
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	0.5	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)								
Initial pH	----	0.1	pH Unit	9.7	10.0	10.7	10.6	10.6
After HCl pH	----	0.1	pH Unit	1.4	1.4	1.6	1.4	1.3
Extraction Fluid Number	----	1	-	1	1	1	1	1
Final pH	----	0.1	pH Unit	5.6	5.9	5.9	5.8	5.7
EN33: TCLP Leach - Inorganics/PFAS (Plastic Vessel)								
Initial pH	----	0.1	pH Unit	9.7	10.0	10.7	10.6	----
After HCl pH	----	0.1	pH Unit	1.4	1.4	1.6	1.4	----
Extraction Fluid Number	----	1	-	1	1	1	1	----
Final pH	----	0.1	pH Unit	5.6	5.9	5.9	5.8	----
EN33Z: ZHE TCLP Leach								
Extraction Fluid Number	----	0.1	pH Unit	4.9	4.9	4.9	4.9	4.9
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	31	27	31	14
C10 - C14 Fraction	----	50	mg/kg	1560	2010	1940	1810	1830



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0692	BN0693	BN0694	BN0695	BN0697
Sampling date / time					13-Dec-2022 10:45	13-Dec-2022 10:46	13-Dec-2022 10:47	13-Dec-2022 10:48	13-Dec-2022 10:48
Compound	CAS Number	LOR	Unit		EB2237288-001	EB2237288-002	EB2237288-003	EB2237288-004	EB2237288-005
					Result	Result	Result	Result	Result
EP080/071: Total Petroleum Hydrocarbons - Continued									
C15 - C28 Fraction	----	100	mg/kg		6830	6470	7090	6350	7360
C29 - C36 Fraction	----	100	mg/kg		1440	1390	1550	1480	1590
^ C10 - C36 Fraction (sum)	----	50	mg/kg		9830	9870	10600	9640	10800
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		10	50	42	50	24
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		10	41	35	43	23
>C10 - C16 Fraction	----	50	mg/kg		2700	3070	3070	2820	3000
>C16 - C34 Fraction	----	100	mg/kg		6830	6460	7150	6460	7440
>C34 - C40 Fraction	----	100	mg/kg		760	740	820	780	820
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		10300	10300	11000	10100	11300
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		2700	3070	3070	2820	3000
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	0.6	0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	0.8	0.6	0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	5.2	4.1	4.9	0.9
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	2.1	1.7	2.0	<0.5
^ Sum of BTEX	----	0.2	mg/kg		<0.2	8.7	6.9	7.4	0.9
^ Total Xylenes	----	0.5	mg/kg		<0.5	7.3	5.8	6.9	0.9
Naphthalene	91-20-3	1	mg/kg		1	1	1	1	1
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		<0.0002	0.0003	<0.0003	0.0003	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg		<0.0002	<0.0003	<0.0003	<0.0003	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		0.0002	<0.0003	0.0021	0.0019	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg		<0.0002	<0.0003	0.0019	0.0018	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		0.0050	0.0043	0.0272	0.0231	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg		<0.0002	<0.0003	<0.0003	<0.0003	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN0692	BN0693	BN0694	BN0695	BN0697
Sampling date / time				13-Dec-2022 10:45	13-Dec-2022 10:46	13-Dec-2022 10:47	13-Dec-2022 10:48	13-Dec-2022 10:48
Compound	CAS Number	LOR	Unit	EB2237288-001	EB2237288-002	EB2237288-003	EB2237288-004	EB2237288-005
				Result	Result	Result	Result	Result
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	0.010	0.046	0.046	0.064	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	0.0207	0.114	0.106	0.156	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0162	0.117	0.109	0.159	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	0.0089	0.0498	0.0518	0.0769	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0036	0.0197	0.0171	0.0252	----
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	0.0024	0.0094	0.0097	0.0136	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	0.0011	0.0070	0.0059	0.0090	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	0.0008	0.0025	0.0026	0.0038	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	0.0004	0.0017	0.0017	0.0026	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.0004	0.0005	0.0008	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0006	<0.0007	0.0007	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0003	<0.0003	<0.0003	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	<0.0006	<0.0007	<0.0006	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	<0.0006	<0.0007	<0.0006	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	<0.0006	<0.0007	<0.0006	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	<0.0006	<0.0007	<0.0006	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	<0.0003	<0.0003	<0.0003	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	<0.0003	<0.0003	<0.0003	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0692	BN0693	BN0694	BN0695	BN0697
Sampling date / time					13-Dec-2022 10:45	13-Dec-2022 10:46	13-Dec-2022 10:47	13-Dec-2022 10:48	13-Dec-2022 10:48
Compound	CAS Number	LOR	Unit		EB2237288-001	EB2237288-002	EB2237288-003	EB2237288-004	EB2237288-005
					Result	Result	Result	Result	Result
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids - Continued									
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	<0.0005	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	<0.0005	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	<0.0005	----
EP231_TOP_P: PFAS Sums									
Sum of PFAS	----	0.0002	mg/kg		0.0693	0.372	0.382	0.539	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		0.0052	0.0043	0.0293	0.0250	----
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.0002	mg/kg		0.0693	0.372	0.382	0.539	----
Sum of TOP C4 - C14 as Fluorine	----	0.0002	mg/kg		0.0456	0.245	0.251	0.355	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		<0.0002	<0.0002	<0.0005	<0.0005	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	<0.0002	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		<0.0002	<0.0002	0.0010	0.0024	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg		<0.0002	<0.0002	0.0011	0.0025	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		0.0040	0.0026	0.0154	0.0334	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	<0.0002	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		<0.002	<0.002	<0.002	<0.002	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg		<0.0005	<0.0005	<0.0005	<0.0005	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg		<0.0005	<0.0005	<0.0005	<0.0005	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg		0.0003	0.0002	0.0002	<0.0002	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg		0.0005	0.0004	0.0003	0.0003	----
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg		0.0003	<0.0002	<0.0002	<0.0002	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	<0.0002	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN0692	BN0693	BN0694	BN0695	BN0697
Sampling date / time				13-Dec-2022 10:45	13-Dec-2022 10:46	13-Dec-2022 10:47	13-Dec-2022 10:48	13-Dec-2022 10:48
Compound	CAS Number	LOR	Unit	EB2237288-001	EB2237288-002	EB2237288-003	EB2237288-004	EB2237288-005
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	<0.0002	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	<0.0002	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	<0.0002	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	<0.0002	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	<0.0002	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	<0.0002	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	0.0009	0.0006	0.0007	0.0010	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	0.0016	0.0010	0.0009	0.0010	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	----
EP231P: PFAS Sums								
Sum of PFAS	----	0.0002	mg/kg	0.0076	0.0048	0.0196	0.0406	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0692	BN0693	BN0694	BN0695	BN0697
Sampling date / time					13-Dec-2022 10:45	13-Dec-2022 10:46	13-Dec-2022 10:47	13-Dec-2022 10:48	13-Dec-2022 10:48
Compound	CAS Number	LOR	Unit		EB2237288-001	EB2237288-002	EB2237288-003	EB2237288-004	EB2237288-005
					Result	Result	Result	Result	Result
EP231P: PFAS Sums - Continued									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		0.0040	0.0026	0.0164	0.0358	----
Sum of PFAS (WA DER List)	----	0.0002	mg/kg		0.0073	0.0048	0.0185	0.0381	----
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%		96.3	92.1	84.7	88.4	85.4
Toluene-D8	2037-26-5	0.2	%		87.1	85.0	73.6	86.3	79.8
4-Bromofluorobenzene	460-00-4	0.2	%		102	101	92.4	105	100
EP231_TOP_S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		114	113	121	118	----
13C8-PFOA	----	0.0002	%		97.6	105	110	110	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		120	114	104	112	----
13C8-PFOA	----	0.0002	%		102	118	110	112	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0699	BN0700	----	----	----
Sampling date / time					13-Dec-2022 10:49	13-Dec-2022 10:49	----	----	----
Compound	CAS Number	LOR	Unit		EB2237288-006	EB2237288-007	-----	-----	-----
					Result	Result	----	----	----
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%		15.2	15.9	----	----	----
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		35	29	----	----	----
Cadmium	7440-43-9	1	mg/kg		<1	<1	----	----	----
Chromium	7440-47-3	2	mg/kg		11	22	----	----	----
Copper	7440-50-8	5	mg/kg		47	37	----	----	----
Lead	7439-92-1	5	mg/kg		43	33	----	----	----
Nickel	7440-02-0	2	mg/kg		23	16	----	----	----
Zinc	7440-66-6	5	mg/kg		253	1300	----	----	----
EG048: Hexavalent Chromium (Alkaline Digest)									
Hexavalent Chromium	18540-29-9	0.5	mg/kg		<2.0	<2.0	----	----	----
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)									
Initial pH	----	0.1	pH Unit		10.8	10.6	----	----	----
After HCl pH	----	0.1	pH Unit		1.4	1.4	----	----	----
Extraction Fluid Number	----	1	-		1	1	----	----	----
Final pH	----	0.1	pH Unit		6.5	6.1	----	----	----
EN33Z: ZHE TCLP Leach									
Extraction Fluid Number	----	0.1	pH Unit		4.9	4.9	----	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		17	19	----	----	----
C10 - C14 Fraction	----	50	mg/kg		1680	1740	----	----	----
C15 - C28 Fraction	----	100	mg/kg		5940	6210	----	----	----
C29 - C36 Fraction	----	100	mg/kg		1330	1400	----	----	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg		8950	9350	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		28	30	----	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		27	28	----	----	----
>C10 - C16 Fraction	----	50	mg/kg		2600	2700	----	----	----
>C16 - C34 Fraction	----	100	mg/kg		6000	6290	----	----	----
>C34 - C40 Fraction	----	100	mg/kg		710	740	----	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		9310	9730	----	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		2600	2700	----	----	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN0699	BN0700	----	----	----
Sampling date / time				13-Dec-2022 10:49	13-Dec-2022 10:49	----	----	----
Compound	CAS Number	LOR	Unit	EB2237288-006	EB2237288-007	-----	-----	-----
Result				Result	Result	----	----	----
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	----	----	----
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	----	----	----
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	0.9	1.5	----	----	----
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	0.7	----	----	----
^ Sum of BTEX	----	0.2	mg/kg	0.9	2.2	----	----	----
^ Total Xylenes	----	0.5	mg/kg	0.9	2.2	----	----	----
Naphthalene	91-20-3	1	mg/kg	1	<1	----	----	----
EP080S: TPH(V)/BTEX Surrogates								
1,2-Dichloroethane-D4	17060-07-0	0.2	%	85.6	78.6	----	----	----
Toluene-D8	2037-26-5	0.2	%	87.4	76.5	----	----	----
4-Bromofluorobenzene	460-00-4	0.2	%	104	90.9	----	----	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0692	BN0693	BN0694	BN0695	BN0697
Sampling date / time				13-Dec-2022 10:45	13-Dec-2022 10:46	13-Dec-2022 10:47	13-Dec-2022 10:48	13-Dec-2022 10:48
Compound	CAS Number	LOR	Unit	EB2237288-001	EB2237288-002	EB2237288-003	EB2237288-004	EB2237288-005
				Result	Result	Result	Result	Result
EG005(ED093)C: Leachable Metals by ICPAES								
Arsenic	7440-38-2	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium	7440-43-9	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Chromium	7440-47-3	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Copper	7440-50-8	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	7440-02-0	0.1	mg/L	<0.1	0.1	<0.1	<0.1	<0.1
Zinc	7440-66-6	0.1	mg/L	2.8	4.0	3.6	3.6	3.6
EP080/071: Total Petroleum Hydrocarbons								
C10 - C14 Fraction	----	50	µg/L	2980	10600	12300	5920	6080
C15 - C28 Fraction	----	100	µg/L	1150	2670	1810	940	970
C29 - C36 Fraction	----	50	µg/L	<170	<140	<160	<160	<150
^ C10 - C36 Fraction (sum)	----	50	µg/L	4130	13300	14100	6860	7050
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	100	µg/L	3370	11300	12800	6150	6340
>C16 - C34 Fraction	----	100	µg/L	760	1920	1140	640	650
>C34 - C40 Fraction	----	100	µg/L	<170	<140	<160	<160	<150
^ >C10 - C40 Fraction (sum)	----	100	µg/L	4130	13200	13900	6790	6990
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	3360	11300	12800	6150	6340
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.05	<0.10	<0.10	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.05	<0.10	<0.10	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.05	<0.10	<0.10	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.05	<0.10	<0.10	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.04	0.06	0.46	0.50	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.05	<0.10	<0.10	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.2	<0.5	<0.5	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.18	0.16	0.20	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0692	BN0693	BN0694	BN0695	BN0697
Sampling date / time				13-Dec-2022 10:45	13-Dec-2022 10:46	13-Dec-2022 10:47	13-Dec-2022 10:48	13-Dec-2022 10:48
Compound	CAS Number	LOR	Unit	EB2237288-001	EB2237288-002	EB2237288-003	EB2237288-004	EB2237288-005
				Result	Result	Result	Result	Result
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.05	<0.10	<0.10	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.05	<0.10	<0.10	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.05	<0.10	<0.10	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.05	<0.10	<0.10	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.05	<0.10	<0.10	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.05	<0.10	<0.10	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.05	<0.10	<0.10	----
Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.05	<0.10	<0.10	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.12	<0.25	<0.25	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.05	<0.10	<0.10	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.12	<0.25	<0.25	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.12	<0.25	<0.25	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.12	<0.25	<0.25	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.12	<0.25	<0.25	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.05	<0.10	<0.10	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.05	<0.10	<0.10	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.10	<0.10	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.10	<0.10	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0692	BN0693	BN0694	BN0695	BN0697
Sampling date / time				13-Dec-2022 10:45	13-Dec-2022 10:46	13-Dec-2022 10:47	13-Dec-2022 10:48	13-Dec-2022 10:48
Compound	CAS Number	LOR	Unit	EB2237288-001	EB2237288-002	EB2237288-003	EB2237288-004	EB2237288-005
				Result	Result	Result	Result	Result
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids - Continued								
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.10	<0.10	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.10	<0.10	----
EP231_TOP_P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	0.04	0.29	0.62	0.70	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	0.04	0.06	0.46	0.50	----
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.01	µg/L	0.04	0.29	0.62	0.70	----
^ Sum of TOP C4 - C14 as Fluorine	----	0.01	µg/L	0.02	0.19	0.40	0.45	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.08	0.07	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.07	0.07	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.04	0.08	0.55	0.64	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.02	0.02	0.02	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.02	0.02	<0.02	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	0.02	0.02	0.02	0.02	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0692	BN0693	BN0694	BN0695	BN0697
Sampling date / time				13-Dec-2022 10:45	13-Dec-2022 10:46	13-Dec-2022 10:47	13-Dec-2022 10:48	13-Dec-2022 10:48
Compound	CAS Number	LOR	Unit	EB2237288-001	EB2237288-002	EB2237288-003	EB2237288-004	EB2237288-005
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.07	<0.05	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
EP231P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	0.06	0.14	0.83	0.82	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	0.04	0.08	0.63	0.71	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

				Sample ID	BN0692	BN0693	BN0694	BN0695	BN0697
Sampling date / time					13-Dec-2022 10:45	13-Dec-2022 10:46	13-Dec-2022 10:47	13-Dec-2022 10:48	13-Dec-2022 10:48
Compound	CAS Number	LOR	Unit		EB2237288-001	EB2237288-002	EB2237288-003	EB2237288-004	EB2237288-005
					Result	Result	Result	Result	Result
EP231P: PFAS Sums - Continued									
Sum of PFAS (WA DER List)	----	0.01	µg/L		0.06	0.14	0.76	0.75	----
EP231_TOP_S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		93.5	101	120	95.0	----
13C8-PFOA	----	0.02	%		94.0	90.0	122	92.5	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		107	102	112	101	----
13C8-PFOA	----	0.02	%		100	101	99.9	102	----



Analytical Results

Sub-Matrix: **TCLP LEACHATE**
 (Matrix: **WATER**)

Sample ID

				BN0699	BN0700	----	----	----
Sampling date / time				13-Dec-2022 10:49	13-Dec-2022 10:49	----	----	----
Compound	CAS Number	LOR	Unit	EB2237288-006	EB2237288-007	-----	-----	-----
Result				Result	Result	----	----	----
EG005(ED093)C: Leachable Metals by ICPAES								
Arsenic	7440-38-2	0.1	mg/L	<0.1	<0.1	----	----	----
Cadmium	7440-43-9	0.05	mg/L	<0.05	<0.05	----	----	----
Chromium	7440-47-3	0.1	mg/L	<0.1	<0.1	----	----	----
Copper	7440-50-8	0.1	mg/L	<0.1	<0.1	----	----	----
Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	----	----	----
Nickel	7440-02-0	0.1	mg/L	<0.1	<0.1	----	----	----
Zinc	7440-66-6	0.1	mg/L	1.4	3.6	----	----	----
EP080/071: Total Petroleum Hydrocarbons								
C10 - C14 Fraction	----	50	µg/L	6980	7560	----	----	----
C15 - C28 Fraction	----	100	µg/L	1130	1180	----	----	----
C29 - C36 Fraction	----	50	µg/L	<160	<150	----	----	----
^ C10 - C36 Fraction (sum)	----	50	µg/L	8110	8740	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	100	µg/L	6550	7230	----	----	----
>C16 - C34 Fraction	----	100	µg/L	760	800	----	----	----
>C34 - C40 Fraction	----	100	µg/L	<160	<150	----	----	----
^ >C10 - C40 Fraction (sum)	----	100	µg/L	7310	8030	----	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	6550	7230	----	----	----



Analytical Results

Sub-Matrix: TCLP ZHE LEACHATE
 (Matrix: WATER)

Sample ID

				BN0692	BN0693	BN0694	BN0695	BN0697
Sampling date / time				13-Dec-2022 10:45	13-Dec-2022 10:46	13-Dec-2022 10:47	13-Dec-2022 10:48	13-Dec-2022 10:48
Compound	CAS Number	LOR	Unit	EB2237288-001	EB2237288-002	EB2237288-003	EB2237288-004	EB2237288-005
				Result	Result	Result	Result	Result
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	µg/L	<20	160	170	120	50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	20	µg/L	30	220	210	160	90
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	30	140	140	100	80
EP080: BTEXN								
Benzene	71-43-2	1	µg/L	<1	<1	<1	<1	<1
Toluene	108-88-3	2	µg/L	<2	5	4	3	<2
Ethylbenzene	100-41-4	2	µg/L	<2	7	7	3	<2
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	44	43	35	8
ortho-Xylene	95-47-6	2	µg/L	<2	19	19	17	5
^ Total Xylenes	----	2	µg/L	<2	63	62	52	13
^ Sum of BTEX	----	1	µg/L	<1	75	73	58	13
Naphthalene	91-20-3	5	µg/L	6	<5	<5	<5	<5
EP080S: TPH(V)/BTEX Surrogates								
1,2-Dichloroethane-D4	17060-07-0	2	%	103	96.9	102	104	104
Toluene-D8	2037-26-5	2	%	95.6	97.0	98.3	98.8	102
4-Bromofluorobenzene	460-00-4	2	%	101	104	103	106	105



Analytical Results

Sub-Matrix: **TCLP ZHE LEACHATE**
 (Matrix: **WATER**)

				Sample ID	BN0699	BN0700	----	----	----
Sampling date / time					13-Dec-2022 10:49	13-Dec-2022 10:49	----	----	----
Compound	CAS Number	LOR	Unit		EB2237288-006	EB2237288-007	-----	-----	-----
				Result	Result	Result	----	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	20	µg/L		50	80	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	20	µg/L		80	120	----	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L		70	80	----	----	----
EP080: BTEXN									
Benzene	71-43-2	1	µg/L		<1	<1	----	----	----
Toluene	108-88-3	2	µg/L		<2	3	----	----	----
Ethylbenzene	100-41-4	2	µg/L		<2	4	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L		7	20	----	----	----
ortho-Xylene	95-47-6	2	µg/L		4	10	----	----	----
^ Total Xylenes	----	2	µg/L		11	30	----	----	----
^ Sum of BTEX	----	1	µg/L		11	37	----	----	----
Naphthalene	91-20-3	5	µg/L		<5	<5	----	----	----
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	2	%		101	101	----	----	----
Toluene-D8	2037-26-5	2	%		98.2	98.0	----	----	----
4-Bromofluorobenzene	460-00-4	2	%		106	106	----	----	----

Analytical Results

Descriptive Results

Sub-Matrix: **SOIL**

Method: Compound	Sample ID - Sampling date / time	Analytical Results
EA200: AS 4964 - 2004 Identification of Asbestos in Soils		
EA200: Description	BN0694 - 13-Dec-2022 10:47	Grey rocky soil with organic matter.



Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	53	134
Toluene-D8	2037-26-5	60	131
4-Bromofluorobenzene	460-00-4	59	127
EP231_TOP_S: PFAS Surrogate			
13C4-PFOS	----	47	129
13C8-PFOA	----	56	128
EP231S: PFAS Surrogate			
13C4-PFOS	----	76	136
13C8-PFOA	----	78	131

Sub-Matrix: TCLP LEACHATE		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231_TOP_S: PFAS Surrogate			
13C4-PFOS	----	55	131
13C8-PFOA	----	66	128
EP231S: PFAS Surrogate			
13C4-PFOS	----	65	140
13C8-PFOA	----	71	133

Sub-Matrix: TCLP ZHE LEACHATE		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	66	138
Toluene-D8	2037-26-5	79	120
4-Bromofluorobenzene	460-00-4	74	118

Inter-Laboratory Testing

Analysis conducted by ALS Melbourne, NATA accreditation no. 825, site no. 13778 (Chemistry).

(SOIL) EA200: AS 4964 - 2004 Identification of Asbestos in Soils

CERTIFICATE OF ANALYSIS

Work Order	: EB2300086	Page	: 1 of 44
Client	: HI QUALITY	Laboratory	: Environmental Division Brisbane
Contact	: SEAN HARROLD	Contact	: Customer Services EB
Address	:	Address	: 2 Byth Street Stafford QLD Australia 4053
Telephone	: ----	Telephone	: +61-7-3243 7222
Project	: Treated Solid Waste	Date Samples Received	: 06-Jan-2023 15:20
Order number	:	Date Analysis Commenced	: 09-Jan-2023
C-O-C number	: 46736	Issue Date	: 24-Jan-2023 16:17
Sampler	: SEAN HARROLD		
Site	: Yatala WTS		
Quote number	: EN333 - ALS Compass Sites		
No. of samples received	: 13		
No. of samples analysed	: 13		



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
- Descriptive 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.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Alana Smylie	Team Leader - Asbestos	Newcastle - Asbestos, Mayfield West, NSW
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Matt Frost	Assistant Laboratory Manager	Brisbane Organics, Stafford, QLD
Timothy Creagh	Senior Chemist - Organics	Brisbane Organics, Stafford, QLD



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.

- EP231X (TOP) PFAS TOPA: Sample 'BN0704' shows poor surrogate recovery due to matrix interference. Confirmed by re-extraction and re-analysis.
- EP231X PFAS: Sample 'BN0704' shows poor matrix spike recovery due to sample heterogeneity. Confirmed by re-extraction and re-analysis.
- EG048G (Hexavalent Chromium by Alkaline Digestion): Some samples were diluted due to matrix interference. LOR adjusted accordingly.
- EP231X - Per- and Polyfluoroalkyl Substances (PFAS): Samples received in 20ml or 125ml bottles have been tested in accordance with the QSM5.3 compliant, NATA accredited method. 60mL or 250mL bottles have been tested to the legacy QSM 5.1 aligned, NATA accredited method.
- 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.
- EP231X (TOP) PFAS: Particular samples required dilution due to the presence of high level contaminants. LOR values have been adjusted accordingly.
- EP080 TRH Volatiles/BTEX: Sample "BN0718" shows poor surrogate recovery due to matrix interference
- EP075(SIM)-PAH/Phenols(GCMS-SIM): Particular samples 'BN0705' and 'BN0712' required dilution prior to analysis due to matrix interferences. LOR values have been adjusted accordingly. Surrogate recovery and matrix spike not determined.
- EP231X PFAS: The LOR of EtFOSAA for sample "BN0717" has been raised due to sample matrix interferences.
- EP068 Pesticides by GCMS: sample 'BN0705' and 'BN0712' required dilution due to sample matrix. LOR values have been adjusted accordingly.
- EP231X PFAS: Particular samples required dilution due to sample matrix. LOR values have been adjusted accordingly.
- EG005T (Total Metals by ICP-AES): BN0702 (EB2300086-001) shows poor duplicate results due to sample heterogeneity. This has been confirmed by visual inspection.
- EG005T (Total Metals by ICP-AES): BN0704 (EB2300086-002) shows poor matrix spike recovery due to sample heterogeneity. This has been confirmed by visual inspection.
- EG005T (Total Metals by ICP-AES): BN0717 (EB2300086-011) shows poor duplicate results due to sample heterogeneity. This has been confirmed by visual inspection.
- EP071 (TRH Semivolatile): Particular samples required dilution due to the presence of high level contaminants. LOR values have been adjusted accordingly.
- EG048G (Hexavalent Chromium by Alkaline Digestion): Sample EB2300086_001 (BN0702) shows poor matrix spike recovery due to matrix interferences.
- EP071 Semivolatile TPH: Particular samples required dilution prior to analysis due to the presence of high level contaminants. Limits of reporting have been adjusted accordingly.
- EA200 'Am' Amosite (brown asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)
- EA200 'Trace' - Asbestos fibres ("Free Fibres") detected by trace analysis per AS4964. The result can be interpreted that the sample contains detectable 'respirable' asbestos fibres
- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.
- EA200 Legend



- EA200 'Ch' Chrysotile (white asbestos)
- EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.
- EA200: For samples larger than 30g, the <2mm fraction may be sub-sampled prior to trace analysis as outlined in ISO23909:2008(E) Sect 6.3.2-2
- EA200: 'Yes' - Asbestos detected by polarised light microscopy including dispersion staining.
- EA200: 'No*' - No asbestos found, at the reporting limit of 0.1g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at concentrations estimated to be below 0.1g/kg.
- EA200: 'No' - No asbestos found at the reporting limit 0.1g/kg, by polarised light microscopy including dispersion staining.
- 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.
- EN33: Where leachable PFAS analysis is requested, centrifugation rather than pressure filtration is used as the default approach for removal of particulates, in line with AS 4439.3.



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN0702	BN0704	BN0705	BN0706	BN0708
Sampling date / time				04-Jan-2023 10:49	04-Jan-2023 10:51	04-Jan-2023 10:54	04-Jan-2023 10:55	04-Jan-2023 10:57
Compound	CAS Number	LOR	Unit	EB2300086-001	EB2300086-002	EB2300086-003	EB2300086-004	EB2300086-005
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	10.6	19.4	24.0	24.6	22.2
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	257	190	84	239	321
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	127	106	53	174	181
Copper	7440-50-8	5	mg/kg	155	112	70	141	204
Lead	7439-92-1	5	mg/kg	54	20	23	28	24
Nickel	7440-02-0	2	mg/kg	23	10	15	13	15
Zinc	7440-66-6	5	mg/kg	352	282	465	550	417
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	0.5	mg/kg	<4.0	<2.0	<2.0	<2.0	<2.0
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)								
Initial pH	----	0.1	pH Unit	9.8	10.0	10.1	10.4	10.1
After HCl pH	----	0.1	pH Unit	3.0	1.7	1.6	1.7	1.6
Extraction Fluid Number	----	1	-	1	1	1	1	1
Final pH	----	0.1	pH Unit	6.6	6.5	6.5	6.7	6.4
EN33: TCLP Leach - Inorganics/PFAS (Plastic Vessel)								
Initial pH	----	0.1	pH Unit	9.8	10.0	10.1	10.4	10.1
After HCl pH	----	0.1	pH Unit	3.0	1.7	1.7	1.6	1.6
Extraction Fluid Number	----	1	-	1	1	1	1	1
Final pH	----	0.1	pH Unit	6.6	6.5	6.5	6.7	6.4
EN33Z: ZHE TCLP Leach								
Extraction Fluid Number	----	0.1	pH Unit	4.9	4.9	4.9	4.9	4.9
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	----	----	<0.45	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	----	----	<0.45	----	----
beta-BHC	319-85-7	0.05	mg/kg	----	----	<0.45	----	----
gamma-BHC	58-89-9	0.05	mg/kg	----	----	<0.45	----	----
delta-BHC	319-86-8	0.05	mg/kg	----	----	<0.45	----	----
Heptachlor	76-44-8	0.05	mg/kg	----	----	<0.45	----	----
Aldrin	309-00-2	0.05	mg/kg	----	----	<0.45	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg	----	----	<0.45	----	----
^ Total Chlordane (sum)	----	0.05	mg/kg	----	----	<0.45	----	----
trans-Chlordane	5103-74-2	0.05	mg/kg	----	----	<0.45	----	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN0702	BN0704	BN0705	BN0706	BN0708
Sampling date / time				04-Jan-2023 10:49	04-Jan-2023 10:51	04-Jan-2023 10:54	04-Jan-2023 10:55	04-Jan-2023 10:57
Compound	CAS Number	LOR	Unit	EB2300086-001	EB2300086-002	EB2300086-003	EB2300086-004	EB2300086-005
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
alpha-Endosulfan	959-98-8	0.05	mg/kg	----	----	<0.45	----	----
cis-Chlordane	5103-71-9	0.05	mg/kg	----	----	<0.45	----	----
Dieldrin	60-57-1	0.05	mg/kg	----	----	<0.45	----	----
4,4'-DDE	72-55-9	0.05	mg/kg	----	----	<0.45	----	----
Endrin	72-20-8	0.05	mg/kg	----	----	<0.45	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg	----	----	<0.45	----	----
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	----	----	<0.45	----	----
4,4'-DDD	72-54-8	0.05	mg/kg	----	----	<0.45	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg	----	----	<0.45	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg	----	----	<0.45	----	----
4,4'-DDT	50-29-3	0.2	mg/kg	----	----	<0.4	----	----
Endrin ketone	53494-70-5	0.05	mg/kg	----	----	<0.45	----	----
Methoxychlor	72-43-5	0.2	mg/kg	----	----	<0.4	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	----	----	<0.45	----	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	----	----	<0.45	----	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	41	65	72	49
C10 - C14 Fraction	----	50	mg/kg	1120	1880	2980	2480	2500
C15 - C28 Fraction	----	100	mg/kg	5410	3620	3990	4120	4400
C29 - C36 Fraction	----	100	mg/kg	1160	950	1240	1280	1360
^ C10 - C36 Fraction (sum)	----	50	mg/kg	7690	6450	8210	7880	8260
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	80	121	138	91
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	70	102	119	76
>C10 - C16 Fraction	----	50	mg/kg	1930	2440	3560	3100	3090
>C16 - C34 Fraction	----	100	mg/kg	5490	3710	4260	4390	4720
>C34 - C40 Fraction	----	100	mg/kg	560	500	670	680	700
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	7980	6650	8490	8170	8510
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	1930	2440	3560	3100	3090
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	0.8	2.1	1.6	3.5



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN0702	BN0704	BN0705	BN0706	BN0708
Sampling date / time				04-Jan-2023 10:49	04-Jan-2023 10:51	04-Jan-2023 10:54	04-Jan-2023 10:55	04-Jan-2023 10:57
Compound	CAS Number	LOR	Unit	EB2300086-001	EB2300086-002	EB2300086-003	EB2300086-004	EB2300086-005
				Result	Result	Result	Result	Result
EP080: BTEXN - Continued								
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1.4	2.7	2.8	1.9
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	5.4	9.6	9.7	6.6
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	2.7	4.7	4.6	3.4
^ Sum of BTEX	----	0.2	mg/kg	<0.2	10.3	19.1	18.7	15.4
^ Total Xylenes	----	0.5	mg/kg	<0.5	8.1	14.3	14.3	10.0
Naphthalene	91-20-3	1	mg/kg	2	3	4	4	4
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0129	<0.0130	<0.0131	<0.0131
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	<0.0129	<0.0130	<0.0131	<0.0131
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	0.0017	<0.0129	<0.0130	<0.0131	<0.0131
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	0.0018	<0.0129	<0.0130	<0.0131	<0.0131
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0259	<0.0129	<0.0130	<0.0131	<0.0131
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0129	<0.0130	<0.0131	<0.0131
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	0.029	<0.065	<0.081	<0.068	<0.065
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	0.0491	0.0851	0.180	0.177	0.160
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0384	0.0996	0.182	0.168	0.153
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	0.0125	0.0562	0.120	0.120	0.104
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0067	<0.0129	<0.0130	<0.0131	<0.0131
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	0.0036	<0.0129	<0.0130	<0.0131	<0.0131
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	0.0022	<0.0129	<0.0130	<0.0131	<0.0131
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	0.0011	<0.0129	<0.0130	<0.0131	<0.0131
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	0.0006	<0.0129	<0.0130	<0.0131	<0.0131
Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.0002	mg/kg	0.0002	<0.0129	<0.0130	<0.0131	<0.0131
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0324	<0.0326	<0.0327	<0.0327



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN0702	BN0704	BN0705	BN0706	BN0708
Sampling date / time				04-Jan-2023 10:49	04-Jan-2023 10:51	04-Jan-2023 10:54	04-Jan-2023 10:55	04-Jan-2023 10:57
Compound	CAS Number	LOR	Unit	EB2300086-001	EB2300086-002	EB2300086-003	EB2300086-004	EB2300086-005
				Result	Result	Result	Result	Result
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0129	<0.0130	<0.0131	<0.0131
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	<0.0324	<0.0326	<0.0327	<0.0327
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	<0.0324	<0.0326	<0.0327	<0.0327
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	<0.0324	<0.0326	<0.0327	<0.0327
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	<0.0324	<0.0326	<0.0327	<0.0327
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	<0.0129	<0.0130	<0.0131	<0.0131
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	<0.0129	<0.0130	<0.0131	<0.0131
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0129	<0.0130	<0.0131	<0.0131
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0129	<0.0130	<0.0131	<0.0131
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0129	<0.0130	<0.0131	<0.0131
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0129	<0.0130	<0.0131	<0.0131
EP231_TOP_P: PFAS Sums								
Sum of PFAS	----	0.0002	mg/kg	0.173	0.241	0.482	0.465	0.417
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	0.0276	<0.0129	<0.0130	<0.0131	<0.0131
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.0002	mg/kg	0.173	0.241	0.482	0.465	0.417
Sum of TOP C4 - C14 as Fluorine	----	0.0002	mg/kg	0.113	0.160	0.319	0.308	0.276
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	0.0004	<0.0002	0.0002	0.0002	0.0004



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN0702	BN0704	BN0705	BN0706	BN0708
Sampling date / time				04-Jan-2023 10:49	04-Jan-2023 10:51	04-Jan-2023 10:54	04-Jan-2023 10:55	04-Jan-2023 10:57
Compound	CAS Number	LOR	Unit	EB2300086-001	EB2300086-002	EB2300086-003	EB2300086-004	EB2300086-005
				Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids - Continued								
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	0.0013	0.0009	0.0009	0.0010	0.0010
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	0.0019	0.0013	0.0012	0.0014	0.0012
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0221	0.0157	0.0213	0.0284	0.0192
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0005	<0.0002	<0.0005	<0.0005	0.0008
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.002	<0.001	<0.002	<0.002	<0.002
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0005	<0.0004	<0.0005	<0.0005	<0.0005
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0004	0.0004	0.0007	0.0008	0.0007
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	0.0003	0.0003	<0.0005	<0.0005	<0.0005
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0005	0.0013	0.0019	0.0020	0.0018
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	0.0002	0.0003	0.0002	0.0003	0.0002
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0013	<0.0005	<0.0005	<0.0012	<0.0005
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0013	<0.0005	<0.0012	<0.0012	<0.0012
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0013	<0.0005	<0.0012	<0.0012	<0.0012



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0702	BN0704	BN0705	BN0706	BN0708
Sampling date / time					04-Jan-2023 10:49	04-Jan-2023 10:51	04-Jan-2023 10:54	04-Jan-2023 10:55	04-Jan-2023 10:57
Compound	CAS Number	LOR	Unit		EB2300086-001	EB2300086-002	EB2300086-003	EB2300086-004	EB2300086-005
					Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg		<0.0013	<0.0005	<0.0012	<0.0012	<0.0012
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg		<0.0002	<0.0002	<0.0005	<0.0005	<0.0005
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg		<0.0002	0.0017	0.0035	0.0044	0.0041
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg		0.0010	0.0014	0.0016	0.0020	0.0018
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		0.0012	0.0013	0.0012	0.0017	0.0014
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	0.0007	0.0006
EP231P: PFAS Sums									
Sum of PFAS	----	0.0002	mg/kg		0.0293	0.0246	0.0327	0.0429	0.0332
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		0.0234	0.0166	0.0222	0.0294	0.0202
Sum of PFAS (WA DER List)	----	0.0002	mg/kg		0.0272	0.0213	0.0278	0.0361	0.0263
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%		----	----	Not Determined	----	----
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%		----	----	Not Determined	----	----
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%		89.8	113	83.8	90.1	73.3
Toluene-D8	2037-26-5	0.2	%		78.7	102	71.4	77.3	64.0
4-Bromofluorobenzene	460-00-4	0.2	%		87.3	107	78.4	83.5	70.5
EP231_TOP_S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		73.0	Not Determined	Not Determined	Not Determined	Not Determined
13C8-PFOA	----	0.0002	%		80.3	Not Determined	Not Determined	Not Determined	Not Determined
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		134	116	118	118	124



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0702	BN0704	BN0705	BN0706	BN0708
Sampling date / time					04-Jan-2023 10:49	04-Jan-2023 10:51	04-Jan-2023 10:54	04-Jan-2023 10:55	04-Jan-2023 10:57
Compound	CAS Number	LOR	Unit		EB2300086-001	EB2300086-002	EB2300086-003	EB2300086-004	EB2300086-005
					Result	Result	Result	Result	Result
EP231S: PFAS Surrogate - Continued									
13C8-PFOA	----	0.0002	%		116	104	120	100	114



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN0709	BN0710	BN0711	BN0712	BN0716
Sampling date / time				04-Jan-2023 10:59	04-Jan-2023 11:00	04-Jan-2023 11:01	04-Jan-2023 11:02	04-Jan-2023 11:04
Compound	CAS Number	LOR	Unit	EB2300086-006	EB2300086-007	EB2300086-008	EB2300086-009	EB2300086-010
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	28.2	28.4	28.2	27.4	27.7
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	No	No	No	----	No
Asbestos (Trace)	1332-21-4	5	Fibres	No	No	No	----	No
Asbestos Type	1332-21-4	-	--	-	-	-	----	-
Sample weight (dry)	----	0.01	g	25.0	24.6	25.9	----	30.4
APPROVED IDENTIFIER:	----	-	--	A. SMYLIE	A. SMYLIE	A. SMYLIE	----	A. SMYLIE
Synthetic Mineral Fibre	----	-	--	No	No	No	----	No
Organic Fibre	----	-	--	No	Yes	No	----	No
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	964	125	36	83	78
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	505	75	32	49	46
Copper	7440-50-8	5	mg/kg	543	81	46	64	64
Lead	7439-92-1	5	mg/kg	56	33	18	24	23
Nickel	7440-02-0	2	mg/kg	20	21	14	21	20
Zinc	7440-66-6	5	mg/kg	610	480	463	434	414
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	0.5	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)								
Initial pH	----	0.1	pH Unit	10.6	10.7	10.6	10.8	10.6
After HCl pH	----	0.1	pH Unit	1.6	1.8	1.7	1.6	1.6
Extraction Fluid Number	----	1	-	1	1	1	1	1
Final pH	----	0.1	pH Unit	6.8	6.7	6.6	6.6	6.6
EN33: TCLP Leach - Inorganics/PFAS (Plastic Vessel)								
Initial pH	----	0.1	pH Unit	10.6	10.7	10.6	10.8	10.6
After HCl pH	----	0.1	pH Unit	1.6	1.8	1.7	1.6	1.6
Extraction Fluid Number	----	1	-	1	1	1	1	1
Final pH	----	0.1	pH Unit	6.8	6.7	6.6	6.6	6.6
EN33Z: ZHE TCLP Leach								
Extraction Fluid Number	----	0.1	pH Unit	4.9	4.9	4.9	4.9	4.9
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	----	----	----	<0.47	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	----	----	----	<0.47	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN0709	BN0710	BN0711	BN0712	BN0716
Sampling date / time				04-Jan-2023 10:59	04-Jan-2023 11:00	04-Jan-2023 11:01	04-Jan-2023 11:02	04-Jan-2023 11:04
Compound	CAS Number	LOR	Unit	EB2300086-006	EB2300086-007	EB2300086-008	EB2300086-009	EB2300086-010
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
beta-BHC	319-85-7	0.05	mg/kg	----	----	----	<0.47	----
gamma-BHC	58-89-9	0.05	mg/kg	----	----	----	<0.47	----
delta-BHC	319-86-8	0.05	mg/kg	----	----	----	<0.47	----
Heptachlor	76-44-8	0.05	mg/kg	----	----	----	<0.47	----
Aldrin	309-00-2	0.05	mg/kg	----	----	----	<0.47	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg	----	----	----	<0.47	----
^ Total Chlordane (sum)	----	0.05	mg/kg	----	----	----	<0.47	----
trans-Chlordane	5103-74-2	0.05	mg/kg	----	----	----	<0.47	----
alpha-Endosulfan	959-98-8	0.05	mg/kg	----	----	----	<0.47	----
cis-Chlordane	5103-71-9	0.05	mg/kg	----	----	----	<0.47	----
Dieldrin	60-57-1	0.05	mg/kg	----	----	----	<0.47	----
4,4'-DDE	72-55-9	0.05	mg/kg	----	----	----	<0.47	----
Endrin	72-20-8	0.05	mg/kg	----	----	----	<0.47	----
beta-Endosulfan	33213-65-9	0.05	mg/kg	----	----	----	<0.47	----
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	----	----	----	<0.47	----
4,4'-DDD	72-54-8	0.05	mg/kg	----	----	----	<0.47	----
Endrin aldehyde	7421-93-4	0.05	mg/kg	----	----	----	<0.47	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg	----	----	----	<0.47	----
4,4'-DDT	50-29-3	0.2	mg/kg	----	----	----	<0.5	----
Endrin ketone	53494-70-5	0.05	mg/kg	----	----	----	<0.47	----
Methoxychlor	72-43-5	0.2	mg/kg	----	----	----	<0.5	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	----	----	----	<0.47	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	----	----	----	<0.47	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	65	63	52	60	65
C10 - C14 Fraction	----	50	mg/kg	2530	2800	2650	2630	1960
C15 - C28 Fraction	----	100	mg/kg	4160	4700	4680	4520	3540
C29 - C36 Fraction	----	100	mg/kg	2070	2470	2310	2270	1880
^ C10 - C36 Fraction (sum)	----	50	mg/kg	8760	9970	9640	9420	7380
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	114	112	94	105	109
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	94	88	75	83	84
>C10 - C16 Fraction	----	50	mg/kg	3090	3400	3260	3220	2400



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0709	BN0710	BN0711	BN0712	BN0716
Sampling date / time					04-Jan-2023 10:59	04-Jan-2023 11:00	04-Jan-2023 11:01	04-Jan-2023 11:02	04-Jan-2023 11:04
Compound	CAS Number	LOR	Unit		EB2300086-006	EB2300086-007	EB2300086-008	EB2300086-009	EB2300086-010
					Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
>C16 - C34 Fraction	----	100	mg/kg		5020	5770	5630	5460	4400
>C34 - C40 Fraction	----	100	mg/kg		1290	1550	1460	1420	1210
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		9400	10700	10400	10100	8010
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		3090	3400	3260	3220	2400
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		4.5	7.2	4.2	4.5	5.0
Ethylbenzene	100-41-4	0.5	mg/kg		2.5	2.7	2.3	2.8	3.1
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		8.7	9.3	8.4	10.0	11.6
ortho-Xylene	95-47-6	0.5	mg/kg		4.1	4.6	4.1	4.8	5.5
^ Sum of BTEX	----	0.2	mg/kg		19.8	23.8	19.0	22.1	25.2
^ Total Xylenes	----	0.5	mg/kg		12.8	13.9	12.5	14.8	17.1
Naphthalene	91-20-3	1	mg/kg		4	5	4	4	4
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		<0.0005	<0.0129	<0.0261	<0.0130	0.0283
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg		<0.0005	<0.0129	<0.0261	<0.0130	0.0382
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		<0.0005	<0.0129	<0.0261	<0.0130	0.542
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg		<0.0005	<0.0129	<0.0261	<0.0130	0.0404
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		0.0121	<0.0129	<0.0261	<0.0130	<0.0054
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg		<0.0005	<0.0129	<0.0261	<0.0130	<0.0005
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		0.233	<0.087	<0.130	<0.076	0.053
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg		0.492	0.208	0.193	0.242	0.111
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg		0.292	0.193	0.207	0.229	0.534
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg		0.191	0.141	0.120	0.150	0.135
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg		0.0934	<0.0129	<0.0261	<0.0130	0.0490
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg		0.0599	0.0216	<0.0261	<0.0130	0.0335
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg		0.0344	<0.0129	<0.0261	<0.0130	0.0164



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN0709	BN0710	BN0711	BN0712	BN0716
Sampling date / time				04-Jan-2023 10:59	04-Jan-2023 11:00	04-Jan-2023 11:01	04-Jan-2023 11:02	04-Jan-2023 11:04
Compound	CAS Number	LOR	Unit	EB2300086-006	EB2300086-007	EB2300086-008	EB2300086-009	EB2300086-010
				Result	Result	Result	Result	Result
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	0.0188	<0.0129	<0.0261	<0.0130	0.0072
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	0.0130	<0.0129	<0.0261	<0.0130	<0.0028
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	0.0049	<0.0129	<0.0261	<0.0130	<0.0013
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	0.0039	<0.0323	<0.0653	<0.0325	<0.0032
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0005	<0.0129	<0.0261	<0.0130	<0.0005
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0013	<0.0323	<0.0653	<0.0325	<0.0032
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0013	<0.0323	<0.0653	<0.0325	<0.0013
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0013	<0.0323	<0.0653	<0.0325	<0.0013
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0013	<0.0323	<0.0653	<0.0325	<0.0032
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0005	<0.0129	<0.0261	<0.0130	<0.0013
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0005	<0.0129	<0.0261	<0.0130	<0.0005
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0129	<0.0261	<0.0130	<0.0013
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0129	<0.0261	<0.0130	<0.0005
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0129	<0.0261	<0.0130	<0.0005
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0129	<0.0261	<0.0130	<0.0013
EP231_TOP_P: PFAS Sums								
Sum of PFAS	----	0.0002	mg/kg	1.45	0.564	0.520	0.621	3.66

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0709	BN0710	BN0711	BN0712	BN0716
Sampling date / time				04-Jan-2023 10:59	04-Jan-2023 11:00	04-Jan-2023 11:01	04-Jan-2023 11:02	04-Jan-2023 11:04	
Compound	CAS Number	LOR	Unit	EB2300086-006	EB2300086-007	EB2300086-008	EB2300086-009	EB2300086-010	
				Result	Result	Result	Result	Result	
EP231_TOP_P: PFAS Sums - Continued									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	0.0121	<0.0129	<0.0261	<0.0130	2.76	
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.0002	mg/kg	1.45	0.564	0.520	0.621	3.66	
Sum of TOP C4 - C14 as Fluorine	----	0.0002	mg/kg	0.954	0.374	0.344	0.411	2.35	
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	0.0003	0.0003	0.0002	0.0003	0.0002	
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	0.0006	0.0008	0.0007	0.0007	0.0006	
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	0.0004	0.0005	0.0005	0.0004	0.0005	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0134	0.0157	0.0143	0.0133	0.0137	
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	0.0007	0.0008	0.0008	0.0008	0.0007	
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.002	<0.002	<0.002	<0.002	<0.002	
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0005	<0.0005	<0.0005	0.0006	<0.0005	
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0014	0.0015	0.0017	0.0016	0.0016	
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	0.0004	0.0004	0.0004	0.0004	0.0004	
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
EP231C: Perfluoroalkyl Sulfonamides									

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0709	BN0710	BN0711	BN0712	BN0716
Sampling date / time				04-Jan-2023 10:59	04-Jan-2023 11:00	04-Jan-2023 11:01	04-Jan-2023 11:02	04-Jan-2023 11:04	
Compound	CAS Number	LOR	Unit	EB2300086-006	EB2300086-007	EB2300086-008	EB2300086-009	EB2300086-010	
				Result	Result	Result	Result	Result	
EP231C: Perfluoroalkyl Sulfonamides - Continued									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0013	<0.0012	<0.0005	<0.0012	<0.0012	
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0013	<0.0012	<0.0013	<0.0012	<0.0012	
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0013	<0.0012	<0.0013	<0.0012	<0.0012	
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0013	<0.0012	<0.0013	<0.0012	<0.0012	
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	0.0073	0.0070	0.0069	0.0082	0.0074	
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	0.0017	0.0017	0.0020	0.0019	0.0019	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	0.0012	0.0012	0.0011	0.0010	0.0010	
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
EP231P: PFAS Sums									
Sum of PFAS	----	0.0002	mg/kg	0.0279	0.0299	0.0286	0.0292	0.0280	
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	0.0140	0.0165	0.0150	0.0140	0.0143	
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	0.0186	0.0212	0.0200	0.0194	0.0190	
EP068S: Organochlorine Pesticide Surrogate									
Dibromo-DDE	21655-73-2	0.05	%	----	----	----	Not Determined	----	
EP068T: Organophosphorus Pesticide Surrogate									
DEF	78-48-8	0.05	%	----	----	----	Not Determined	----	
EP080S: TPH(V)/BTEX Surrogates									



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0709	BN0710	BN0711	BN0712	BN0716
Sampling date / time					04-Jan-2023 10:59	04-Jan-2023 11:00	04-Jan-2023 11:01	04-Jan-2023 11:02	04-Jan-2023 11:04
Compound	CAS Number	LOR	Unit		EB2300086-006	EB2300086-007	EB2300086-008	EB2300086-009	EB2300086-010
					Result	Result	Result	Result	Result
EP080S: TPH(V)/BTEX Surrogates - Continued									
1,2-Dichloroethane-D4	17060-07-0	0.2	%		95.1	84.0	80.3	76.7	85.1
Toluene-D8	2037-26-5	0.2	%		97.3	72.3	68.6	61.7	74.1
4-Bromofluorobenzene	460-00-4	0.2	%		97.1	80.6	76.8	69.7	90.6
EP231_TOP_S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		110	Not Determined	Not Determined	Not Determined	121
13C8-PFOA	----	0.0002	%		99.8	Not Determined	Not Determined	Not Determined	116
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		116	114	111	100	109
13C8-PFOA	----	0.0002	%		111	108	100	102	116



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN0717	BN0718	BN0720	----	----
Sampling date / time				04-Jan-2023 11:06	04-Jan-2023 11:07	04-Jan-2023 11:08	----	----
Compound	CAS Number	LOR	Unit	EB2300086-011	EB2300086-012	EB2300086-013	-----	-----
				Result	Result	Result	----	----
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	29.0	28.2	29.5	----	----
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	No	----	----	----	----
Asbestos (Trace)	1332-21-4	5	Fibres	No	----	----	----	----
Asbestos Type	1332-21-4	-	--	-	----	----	----	----
Sample weight (dry)	----	0.01	g	23.6	----	----	----	----
APPROVED IDENTIFIER:	----	-	--	A. SMYLIE	----	----	----	----
Synthetic Mineral Fibre	----	-	--	No	----	----	----	----
Organic Fibre	----	-	--	No	----	----	----	----
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	141	105	280	----	----
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	----	----
Chromium	7440-47-3	2	mg/kg	77	57	135	----	----
Copper	7440-50-8	5	mg/kg	101	66	216	----	----
Lead	7439-92-1	5	mg/kg	29	27	96	----	----
Nickel	7440-02-0	2	mg/kg	23	26	26	----	----
Zinc	7440-66-6	5	mg/kg	439	414	963	----	----
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	0.5	mg/kg	<2.0	<2.0	<2.0	----	----
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)								
Initial pH	----	0.1	pH Unit	10.6	10.7	10.4	----	----
After HCl pH	----	0.1	pH Unit	1.6	1.7	1.8	----	----
Extraction Fluid Number	----	1	-	1	1	1	----	----
Final pH	----	0.1	pH Unit	6.6	6.6	6.5	----	----
EN33: TCLP Leach - Inorganics/PFAS (Plastic Vessel)								
Initial pH	----	0.1	pH Unit	10.6	10.7	----	----	----
After HCl pH	----	0.1	pH Unit	1.6	1.7	----	----	----
Extraction Fluid Number	----	1	-	1	1	----	----	----
Final pH	----	0.1	pH Unit	6.6	6.6	----	----	----
EN33Z: ZHE TCLP Leach								
Extraction Fluid Number	----	0.1	pH Unit	4.9	4.9	4.9	----	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	76	73	75	----	----
C10 - C14 Fraction	----	50	mg/kg	2530	2380	2840	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0717	BN0718	BN0720	----	----
Sampling date / time					04-Jan-2023 11:06	04-Jan-2023 11:07	04-Jan-2023 11:08	----	----
Compound	CAS Number	LOR	Unit		EB2300086-011	EB2300086-012	EB2300086-013	-----	-----
					Result	Result	Result	----	----
EP080/071: Total Petroleum Hydrocarbons - Continued									
C15 - C28 Fraction	----	100	mg/kg		4070	3900	4520	----	----
C29 - C36 Fraction	----	100	mg/kg		2210	1920	2130	----	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg		8810	8200	9490	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		116	112	117	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		81	79	82	----	----
>C10 - C16 Fraction	----	50	mg/kg		3040	2890	3430	----	----
>C16 - C34 Fraction	----	100	mg/kg		5030	4680	5330	----	----
>C34 - C40 Fraction	----	100	mg/kg		1410	1210	1360	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		9480	8780	10100	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		3040	2890	3430	----	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	----	----
Toluene	108-88-3	0.5	mg/kg		6.3	5.2	5.5	----	----
Ethylbenzene	100-41-4	0.5	mg/kg		4.1	3.9	4.1	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		17.9	17.3	18.3	----	----
ortho-Xylene	95-47-6	0.5	mg/kg		7.1	7.0	7.2	----	----
^ Sum of BTEX	----	0.2	mg/kg		35.4	33.4	35.1	----	----
^ Total Xylenes	----	0.5	mg/kg		25.0	24.3	25.5	----	----
Naphthalene	91-20-3	1	mg/kg		3	3	3	----	----
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		<0.0132	<0.0026	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg		<0.0132	<0.0026	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		<0.0132	<0.0026	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg		<0.0132	<0.0026	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		<0.0132	<0.0042	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg		<0.0132	<0.0026	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0717	BN0718	BN0720	----	----
Sampling date / time					04-Jan-2023 11:06	04-Jan-2023 11:07	04-Jan-2023 11:08	----	----
Compound	CAS Number	LOR	Unit		EB2300086-011	EB2300086-012	EB2300086-013	-----	-----
					Result	Result	Result	----	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		<0.066	0.079	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg		0.212	0.228	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg		0.221	0.186	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg		0.158	0.121	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg		<0.0132	0.0342	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg		<0.0168	0.0281	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg		<0.0132	0.0149	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg		<0.0132	0.0069	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg		<0.0132	<0.0026	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg		<0.0132	<0.0026	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg		<0.0330	<0.0065	----	----	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg		<0.0132	<0.0026	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg		<0.0330	<0.0065	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg		<0.0330	<0.0065	----	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg		<0.0330	<0.0065	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg		<0.0330	<0.0065	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg		<0.0132	<0.0026	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg		<0.0132	<0.0026	----	----	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg		<0.0132	<0.0026	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0717	BN0718	BN0720	----	----
Sampling date / time					04-Jan-2023 11:06	04-Jan-2023 11:07	04-Jan-2023 11:08	----	----
Compound	CAS Number	LOR	Unit		EB2300086-011	EB2300086-012	EB2300086-013	-----	-----
				Result	Result	Result	Result	----	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids - Continued									
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg		<0.0132	<0.0026	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		<0.0132	<0.0026	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		<0.0132	<0.0026	----	----	----
EP231_TOP_P: PFAS Sums									
Sum of PFAS	----	0.0002	mg/kg		0.591	0.698	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		<0.0132	<0.0026	----	----	----
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.0002	mg/kg		0.591	0.698	----	----	----
Sum of TOP C4 - C14 as Fluorine	----	0.0002	mg/kg		0.392	0.461	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		0.0002	<0.0002	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg		<0.0002	<0.0002	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		0.0006	0.0006	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg		0.0004	0.0005	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		0.0136	0.0136	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg		0.0009	0.0009	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		<0.002	<0.002	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg		<0.0005	<0.0005	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg		<0.0005	<0.0005	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg		<0.0005	<0.0005	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg		0.0016	0.0016	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg		0.0004	0.0004	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg		<0.0005	<0.0005	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0717	BN0718	BN0720	----	----
Sampling date / time					04-Jan-2023 11:06	04-Jan-2023 11:07	04-Jan-2023 11:08	----	----
Compound	CAS Number	LOR	Unit		EB2300086-011	EB2300086-012	EB2300086-013	-----	-----
				Result	Result	Result		----	----
EP231B: Perfluoroalkyl Carboxylic Acids - Continued									
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0005	<0.0005	----	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0005	<0.0005	----	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0005	<0.0005	----	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	----	----	----	----
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0005	<0.0005	----	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0012	<0.0012	----	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0012	<0.0012	----	----	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0012	<0.0012	----	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0012	<0.0012	----	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0005	<0.0005	----	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0060	0.0080	----	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	----	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	0.0018	0.0019	----	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	0.0010	0.0012	----	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	----	----	----	----
EP231P: PFAS Sums									
Sum of PFAS	----	0.0002	mg/kg	0.0205	0.0287	----	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0717	BN0718	BN0720	----	----
Sampling date / time					04-Jan-2023 11:06	04-Jan-2023 11:07	04-Jan-2023 11:08	----	----
Compound	CAS Number	LOR	Unit		EB2300086-011	EB2300086-012	EB2300086-013	-----	-----
				Result	Result	Result	Result	----	----
EP231P: PFAS Sums - Continued									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		0.0142	0.0142	----	----	----
Sum of PFAS (WA DER List)	----	0.0002	mg/kg		0.0188	0.0189	----	----	----
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%		84.2	100	76.6	----	----
Toluene-D8	2037-26-5	0.2	%		70.7	58.6	64.0	----	----
4-Bromofluorobenzene	460-00-4	0.2	%		81.8	69.9	74.9	----	----
EP231_TOP_S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		Not Determined	Not Determined	----	----	----
13C8-PFOA	----	0.0002	%		Not Determined	Not Determined	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		114	112	----	----	----
13C8-PFOA	----	0.0002	%		106	100	----	----	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0702	BN0704	BN0705	BN0706	BN0708
Sampling date / time				04-Jan-2023 10:49	04-Jan-2023 10:51	04-Jan-2023 10:54	04-Jan-2023 10:55	04-Jan-2023 10:57
Compound	CAS Number	LOR	Unit	EB2300086-001	EB2300086-002	EB2300086-003	EB2300086-004	EB2300086-005
				Result	Result	Result	Result	Result
EG005(ED093)C: Leachable Metals by ICPAES								
Arsenic	7440-38-2	0.1	mg/L	0.4	0.3	0.3	0.2	0.3
Cadmium	7440-43-9	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Chromium	7440-47-3	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Copper	7440-50-8	0.1	mg/L	0.1	0.1	0.1	0.1	0.1
Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	7440-02-0	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc	7440-66-6	0.1	mg/L	3.2	2.1	1.4	1.0	1.3
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.5	µg/L	----	----	<1.7	----	----
Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L	----	----	<1.7	----	----
beta-BHC	319-85-7	0.5	µg/L	----	----	<1.7	----	----
gamma-BHC	58-89-9	0.5	µg/L	----	----	<1.7	----	----
delta-BHC	319-86-8	0.5	µg/L	----	----	<1.7	----	----
Heptachlor	76-44-8	0.5	µg/L	----	----	<1.7	----	----
Aldrin	309-00-2	0.5	µg/L	----	----	<1.7	----	----
Heptachlor epoxide	1024-57-3	0.5	µg/L	----	----	<1.7	----	----
trans-Chlordane	5103-74-2	0.5	µg/L	----	----	<1.7	----	----
alpha-Endosulfan	959-98-8	0.5	µg/L	----	----	<1.7	----	----
cis-Chlordane	5103-71-9	0.5	µg/L	----	----	<1.7	----	----
Dieldrin	60-57-1	0.5	µg/L	----	----	<1.7	----	----
4,4'-DDE	72-55-9	0.5	µg/L	----	----	<1.7	----	----
Endrin	72-20-8	0.5	µg/L	----	----	<1.7	----	----
beta-Endosulfan	33213-65-9	0.5	µg/L	----	----	<1.7	----	----
4,4'-DDD	72-54-8	0.5	µg/L	----	----	<1.7	----	----
Endrin aldehyde	7421-93-4	0.5	µg/L	----	----	<1.7	----	----
Endosulfan sulfate	1031-07-8	0.5	µg/L	----	----	<1.7	----	----
4,4'-DDT	50-29-3	2.0	µg/L	----	----	<2.0	----	----
Endrin ketone	53494-70-5	0.5	µg/L	----	----	<1.7	----	----
Methoxychlor	72-43-5	2.0	µg/L	----	----	<2.0	----	----
^ Total Chlordane (sum)	----	0.5	µg/L	----	----	<1.7	----	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.5	µg/L	----	----	<1.7	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	µg/L	----	----	<1.7	----	----
EP080/071: Total Petroleum Hydrocarbons								
C10 - C14 Fraction	----	50	µg/L	6110	21200	21500	19400	20200



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0702	BN0704	BN0705	BN0706	BN0708
Sampling date / time				04-Jan-2023 10:49	04-Jan-2023 10:51	04-Jan-2023 10:54	04-Jan-2023 10:55	04-Jan-2023 10:57
Compound	CAS Number	LOR	Unit	EB2300086-001	EB2300086-002	EB2300086-003	EB2300086-004	EB2300086-005
				Result	Result	Result	Result	Result

EP080/071: Total Petroleum Hydrocarbons - Continued

C15 - C28 Fraction	----	100	µg/L	970	2590	2790	2520	2460
C29 - C36 Fraction	----	50	µg/L	130	90	<90	<80	100
^ C10 - C36 Fraction (sum)	----	50	µg/L	7210	23900	24300	21900	22800

EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions

>C10 - C16 Fraction	----	100	µg/L	5850	22600	23000	20700	21300
>C16 - C34 Fraction	----	100	µg/L	790	920	870	800	950
>C34 - C40 Fraction	----	100	µg/L	140	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	100	µg/L	6780	23500	23900	21500	22200
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	5840	22600	23000	20700	21300

EP231_TOP_A: Perfluoroalkyl Sulfonic Acids

Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50

EP231_TOP_B: Perfluoroalkyl Carboxylic Acids

Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<2.5	<2.5	<2.5	<2.5	<2.5
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.50	0.70	1.75	1.35	1.15
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0702	BN0704	BN0705	BN0706	BN0708
Sampling date / time				04-Jan-2023 10:49	04-Jan-2023 10:51	04-Jan-2023 10:54	04-Jan-2023 10:55	04-Jan-2023 10:57
Compound	CAS Number	LOR	Unit	EB2300086-001	EB2300086-002	EB2300086-003	EB2300086-004	EB2300086-005
				Result	Result	Result	Result	Result
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<1.25	<1.25	<1.25	<1.25	<1.25
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<1.25	<1.25	<1.25	<1.25	<1.25
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<1.25	<1.25	<1.25	<1.25	<1.25
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<1.25	<1.25	<1.25	<1.25	<1.25
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<1.25	<1.25	<1.25	<1.25	<1.25
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
EP231_TOP_P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	<0.50	0.70	1.75	1.35	1.15
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.01	µg/L	<0.50	0.70	1.75	1.35	1.15



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0702	BN0704	BN0705	BN0706	BN0708
Sampling date / time				04-Jan-2023 10:49	04-Jan-2023 10:51	04-Jan-2023 10:54	04-Jan-2023 10:55	04-Jan-2023 10:57
Compound	CAS Number	LOR	Unit	EB2300086-001	EB2300086-002	EB2300086-003	EB2300086-004	EB2300086-005
				Result	Result	Result	Result	Result
EP231_TOP_P: PFAS Sums - Continued								
^ Sum of TOP C4 - C14 as Fluorine	----	0.01	µg/L	<0.50	<0.50	1.13	0.87	0.74
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	0.06	0.04	0.02	0.03	0.02
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	0.06	0.03	<0.02	0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.47	0.50	0.27	0.34	0.27
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	0.03	<0.04	<0.06	<0.06	<0.08
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	0.02	0.03	0.03	0.04	0.03
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	0.02	0.02	0.03	0.03	0.03
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	0.02	0.06	0.08	0.08	0.08
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0702	BN0704	BN0705	BN0706	BN0708
Sampling date / time				04-Jan-2023 10:49	04-Jan-2023 10:51	04-Jan-2023 10:54	04-Jan-2023 10:55	04-Jan-2023 10:57
Compound	CAS Number	LOR	Unit	EB2300086-001	EB2300086-002	EB2300086-003	EB2300086-004	EB2300086-005
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.09	0.06	0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	0.68	0.77	0.49	0.59	0.43
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	0.53	0.54	0.29	0.37	0.29
Sum of PFAS (WA DER List)	----	0.01	µg/L	0.62	0.74	0.49	0.57	0.43
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.5	%	----	----	57.4	----	----
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.5	%	----	----	53.4	----	----
EP231_TOP_S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	80.0	79.5	91.5	78.0	80.0
13C8-PFOA	----	0.02	%	70.5	59.5	70.5	69.5	70.0
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	104	119	98.6	108	102



Analytical Results

Sub-Matrix: TCLP LEACHATE (Matrix: WATER)				Sample ID	BN0702	BN0704	BN0705	BN0706	BN0708
Sampling date / time					04-Jan-2023 10:49	04-Jan-2023 10:51	04-Jan-2023 10:54	04-Jan-2023 10:55	04-Jan-2023 10:57
Compound	CAS Number	LOR	Unit		EB2300086-001	EB2300086-002	EB2300086-003	EB2300086-004	EB2300086-005
					Result	Result	Result	Result	Result
EP231S: PFAS Surrogate - Continued									
13C8-PFOA	----	0.02	%		90.7	100	95.3	98.4	97.8



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0709	BN0710	BN0711	BN0712	BN0716
Sampling date / time				04-Jan-2023 10:59	04-Jan-2023 11:00	04-Jan-2023 11:01	04-Jan-2023 11:02	04-Jan-2023 11:04
Compound	CAS Number	LOR	Unit	EB2300086-006	EB2300086-007	EB2300086-008	EB2300086-009	EB2300086-010
				Result	Result	Result	Result	Result
EG005(ED093)C: Leachable Metals by ICPAES								
Arsenic	7440-38-2	0.1	mg/L	<0.1	0.2	0.1	0.1	0.1
Cadmium	7440-43-9	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Chromium	7440-47-3	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Copper	7440-50-8	0.1	mg/L	<0.1	0.2	0.1	0.1	<0.1
Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	7440-02-0	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc	7440-66-6	0.1	mg/L	1.0	1.0	1.2	0.7	1.5
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.5	µg/L	----	----	----	<1.7	----
Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L	----	----	----	<1.7	----
beta-BHC	319-85-7	0.5	µg/L	----	----	----	<1.7	----
gamma-BHC	58-89-9	0.5	µg/L	----	----	----	<1.7	----
delta-BHC	319-86-8	0.5	µg/L	----	----	----	<1.7	----
Heptachlor	76-44-8	0.5	µg/L	----	----	----	<1.7	----
Aldrin	309-00-2	0.5	µg/L	----	----	----	<1.7	----
Heptachlor epoxide	1024-57-3	0.5	µg/L	----	----	----	<1.7	----
trans-Chlordane	5103-74-2	0.5	µg/L	----	----	----	<1.7	----
alpha-Endosulfan	959-98-8	0.5	µg/L	----	----	----	<1.7	----
cis-Chlordane	5103-71-9	0.5	µg/L	----	----	----	<1.7	----
Dieldrin	60-57-1	0.5	µg/L	----	----	----	<1.7	----
4,4'-DDE	72-55-9	0.5	µg/L	----	----	----	<1.7	----
Endrin	72-20-8	0.5	µg/L	----	----	----	<1.7	----
beta-Endosulfan	33213-65-9	0.5	µg/L	----	----	----	<1.7	----
4,4'-DDD	72-54-8	0.5	µg/L	----	----	----	<1.7	----
Endrin aldehyde	7421-93-4	0.5	µg/L	----	----	----	<1.7	----
Endosulfan sulfate	1031-07-8	0.5	µg/L	----	----	----	<1.7	----
4,4'-DDT	50-29-3	2.0	µg/L	----	----	----	<2.0	----
Endrin ketone	53494-70-5	0.5	µg/L	----	----	----	<1.7	----
Methoxychlor	72-43-5	2.0	µg/L	----	----	----	<2.0	----
^ Total Chlordane (sum)	----	0.5	µg/L	----	----	----	<1.7	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.5	µg/L	----	----	----	<1.7	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.5	µg/L	----	----	----	<1.7	----
EP080/071: Total Petroleum Hydrocarbons								
C10 - C14 Fraction	----	50	µg/L	24000	18800	21400	21600	24000



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0709	BN0710	BN0711	BN0712	BN0716
Sampling date / time				04-Jan-2023 10:59	04-Jan-2023 11:00	04-Jan-2023 11:01	04-Jan-2023 11:02	04-Jan-2023 11:04
Compound	CAS Number	LOR	Unit	EB2300086-006	EB2300086-007	EB2300086-008	EB2300086-009	EB2300086-010
				Result	Result	Result	Result	Result

EP080/071: Total Petroleum Hydrocarbons - Continued

C15 - C28 Fraction	----	100	µg/L	2670	2090	2490	2360	2720
C29 - C36 Fraction	----	50	µg/L	<80	<80	<80	<90	<80
^ C10 - C36 Fraction (sum)	----	50	µg/L	26700	20900	23900	24000	26700

EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions

>C10 - C16 Fraction	----	100	µg/L	25300	19700	22600	22500	25200
>C16 - C34 Fraction	----	100	µg/L	930	740	880	900	950
>C34 - C40 Fraction	----	100	µg/L	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	100	µg/L	26200	20400	23500	23400	26200
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	25300	19700	22600	22500	25200

EP231_TOP_A: Perfluoroalkyl Sulfonic Acids

Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50

EP231_TOP_B: Perfluoroalkyl Carboxylic Acids

Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<2.5	<2.5	<2.5	<2.5	<2.5
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	1.00	0.55	0.60	<0.50	<0.50
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0709	BN0710	BN0711	BN0712	BN0716
Sampling date / time				04-Jan-2023 10:59	04-Jan-2023 11:00	04-Jan-2023 11:01	04-Jan-2023 11:02	04-Jan-2023 11:04
Compound	CAS Number	LOR	Unit	EB2300086-006	EB2300086-007	EB2300086-008	EB2300086-009	EB2300086-010
				Result	Result	Result	Result	Result
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<1.25	<1.25	<1.25	<1.25	<1.25
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<1.25	<1.25	<1.25	<1.25	<1.25
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<1.25	<1.25	<1.25	<1.25	<1.25
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<1.25	<1.25	<1.25	<1.25	<1.25
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<1.25	<1.25	<1.25	<1.25	<1.25
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
EP231_TOP_P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	1.00	0.55	0.60	<0.50	<0.50
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.01	µg/L	1.00	0.55	0.60	<0.50	<0.50



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0709	BN0710	BN0711	BN0712	BN0716
Sampling date / time				04-Jan-2023 10:59	04-Jan-2023 11:00	04-Jan-2023 11:01	04-Jan-2023 11:02	04-Jan-2023 11:04
Compound	CAS Number	LOR	Unit	EB2300086-006	EB2300086-007	EB2300086-008	EB2300086-009	EB2300086-010
				Result	Result	Result	Result	Result
EP231_TOP_P: PFAS Sums - Continued								
^ Sum of TOP C4 - C14 as Fluorine	----	0.01	µg/L	0.65	<0.50	<0.50	<0.50	<0.50
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	0.03	0.03	0.02	0.03	0.02
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	0.03	0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.26	0.26	0.26	0.28	0.20
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.08	<0.04	<0.04	<0.06	<0.04
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	0.02	0.02	0.02	0.02	0.03
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	0.03	0.03	0.02	0.02	0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	0.05	0.06	0.05	0.04	0.04
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0709	BN0710	BN0711	BN0712	BN0716
Sampling date / time				04-Jan-2023 10:59	04-Jan-2023 11:00	04-Jan-2023 11:01	04-Jan-2023 11:02	04-Jan-2023 11:04
Compound	CAS Number	LOR	Unit	EB2300086-006	EB2300086-007	EB2300086-008	EB2300086-009	EB2300086-010
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	0.02	<0.02	0.02	0.02	<0.02
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	0.44	0.42	0.39	0.41	0.31
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	0.29	0.29	0.28	0.31	0.22
Sum of PFAS (WA DER List)	----	0.01	µg/L	0.39	0.40	0.37	0.39	0.31
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.5	%	----	----	----	70.9	----
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.5	%	----	----	----	65.6	----
EP231_TOP_S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	94.5	83.5	84.5	83.5	71.5
13C8-PFOA	----	0.02	%	70.0	72.5	72.5	70.0	68.0
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.02	%	108	118	103	117	110



Analytical Results

Sub-Matrix: TCLP LEACHATE (Matrix: WATER)				Sample ID	BN0709	BN0710	BN0711	BN0712	BN0716
Sampling date / time					04-Jan-2023 10:59	04-Jan-2023 11:00	04-Jan-2023 11:01	04-Jan-2023 11:02	04-Jan-2023 11:04
Compound	CAS Number	LOR	Unit		EB2300086-006	EB2300086-007	EB2300086-008	EB2300086-009	EB2300086-010
					Result	Result	Result	Result	Result
EP231S: PFAS Surrogate - Continued									
13C8-PFOA	----	0.02	%		94.4	96.6	96.1	96.7	95.5



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0717	BN0718	BN0720	----	----
Sampling date / time				04-Jan-2023 11:06	04-Jan-2023 11:07	04-Jan-2023 11:08	----	----
Compound	CAS Number	LOR	Unit	EB2300086-011	EB2300086-012	EB2300086-013	-----	-----
				Result	Result	Result	----	----
EG005(ED093)C: Leachable Metals by ICPAES								
Arsenic	7440-38-2	0.1	mg/L	0.1	0.1	0.1	----	----
Cadmium	7440-43-9	0.05	mg/L	<0.05	<0.05	<0.05	----	----
Chromium	7440-47-3	0.1	mg/L	<0.1	<0.1	<0.1	----	----
Copper	7440-50-8	0.1	mg/L	<0.1	<0.1	<0.1	----	----
Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	<0.1	----	----
Nickel	7440-02-0	0.1	mg/L	<0.1	<0.1	<0.1	----	----
Zinc	7440-66-6	0.1	mg/L	1.4	1.1	1.0	----	----
EP080/071: Total Petroleum Hydrocarbons								
C10 - C14 Fraction	----	50	µg/L	16400	14900	15600	----	----
C15 - C28 Fraction	----	100	µg/L	1840	1490	1640	----	----
C29 - C36 Fraction	----	50	µg/L	<150	<160	<160	----	----
^ C10 - C36 Fraction (sum)	----	50	µg/L	18200	16400	17200	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	100	µg/L	17200	15500	16300	----	----
>C16 - C34 Fraction	----	100	µg/L	720	560	660	----	----
>C34 - C40 Fraction	----	100	µg/L	<150	<160	<160	----	----
^ >C10 - C40 Fraction (sum)	----	100	µg/L	17900	16100	17000	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	17200	15500	16300	----	----
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.50	<0.50	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.50	<0.50	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.50	<0.50	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.50	<0.50	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.50	<0.50	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.50	<0.50	----	----	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<2.5	<2.5	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.50	0.55	----	----	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0717	BN0718	BN0720	----	----
Sampling date / time				04-Jan-2023 11:06	04-Jan-2023 11:07	04-Jan-2023 11:08	----	----
Compound	CAS Number	LOR	Unit	EB2300086-011	EB2300086-012	EB2300086-013	-----	-----
				Result	Result	Result	----	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.50	<0.50	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.50	<0.50	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.50	<0.50	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.50	<0.50	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.50	<0.50	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.50	<0.50	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.50	<0.50	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.50	<0.50	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<1.25	<1.25	----	----	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.50	<0.50	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<1.25	<1.25	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<1.25	<1.25	----	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<1.25	<1.25	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<1.25	<1.25	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.50	<0.50	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.50	<0.50	----	----	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.50	<0.50	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.50	<0.50	----	----	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0717	BN0718	BN0720	----	----
Sampling date / time				04-Jan-2023 11:06	04-Jan-2023 11:07	04-Jan-2023 11:08	----	----
Compound	CAS Number	LOR	Unit	EB2300086-011	EB2300086-012	EB2300086-013	-----	-----
				Result	Result	Result	----	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids - Continued								
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.50	<0.50	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.50	<0.50	----	----	----
EP231_TOP_P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	<0.50	0.55	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.50	<0.50	----	----	----
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.01	µg/L	<0.50	0.55	----	----	----
^ Sum of TOP C4 - C14 as Fluorine	----	0.01	µg/L	<0.50	<0.50	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	0.02	0.02	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.18	0.37	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.06	<0.04	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	0.02	0.02	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	0.02	<0.02	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	0.05	0.04	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	----	----	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0717	BN0718	BN0720	----	----
Sampling date / time				04-Jan-2023 11:06	04-Jan-2023 11:07	04-Jan-2023 11:08	----	----
Compound	CAS Number	LOR	Unit	EB2300086-011	EB2300086-012	EB2300086-013	-----	-----
				Result	Result	Result	----	----
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	----	----	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	----	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	0.02	0.25	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	----	----	----
EP231P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	0.31	0.70	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	0.20	0.39	----	----	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

				Sample ID	BN0717	BN0718	BN0720		
Sampling date / time					04-Jan-2023 11:06	04-Jan-2023 11:07	04-Jan-2023 11:08	----	----
Compound	CAS Number	LOR	Unit		EB2300086-011	EB2300086-012	EB2300086-013	-----	-----
				Result	Result	Result	Result	----	----
EP231P: PFAS Sums - Continued									
Sum of PFAS (WA DER List)	----	0.01	µg/L		0.29	0.45	----	----	----
EP231_TOP_S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		82.0	88.5	----	----	----
13C8-PFOA	----	0.02	%		74.5	71.5	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		104	118	----	----	----
13C8-PFOA	----	0.02	%		93.3	88.3	----	----	----



Analytical Results

Sub-Matrix: TCLP ZHE LEACHATE
 (Matrix: WATER)

Sample ID

				BN0702	BN0704	BN0705	BN0706	BN0708
Sampling date / time				04-Jan-2023 10:49	04-Jan-2023 10:51	04-Jan-2023 10:54	04-Jan-2023 10:55	04-Jan-2023 10:57
Compound	CAS Number	LOR	Unit	EB2300086-001	EB2300086-002	EB2300086-003	EB2300086-004	EB2300086-005
				Result	Result	Result	Result	Result
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	µg/L	<20	270	430	360	450
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	20	µg/L	30	390	590	490	600
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	30	300	440	380	410
EP080: BTEXN								
Benzene	71-43-2	1	µg/L	<1	<1	<1	<1	<1
Toluene	108-88-3	2	µg/L	<2	11	29	16	66
Ethylbenzene	100-41-4	2	µg/L	<2	11	19	15	18
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	43	68	52	65
ortho-Xylene	95-47-6	2	µg/L	<2	25	37	30	37
^ Total Xylenes	----	2	µg/L	<2	68	105	82	102
^ Sum of BTEX	----	1	µg/L	<1	90	153	113	186
Naphthalene	91-20-3	5	µg/L	10	11	12	12	14
EP080S: TPH(V)/BTEX Surrogates								
1,2-Dichloroethane-D4	17060-07-0	2	%	109	112	106	99.4	103
Toluene-D8	2037-26-5	2	%	100	107	99.4	97.4	101
4-Bromofluorobenzene	460-00-4	2	%	102	108	100	99.6	102



Analytical Results

Sub-Matrix: TCLP ZHE LEACHATE
 (Matrix: WATER)

Sample ID

				BN0709	BN0710	BN0711	BN0712	BN0716
Sampling date / time				04-Jan-2023 10:59	04-Jan-2023 11:00	04-Jan-2023 11:01	04-Jan-2023 11:02	04-Jan-2023 11:04
Compound	CAS Number	LOR	Unit	EB2300086-006	EB2300086-007	EB2300086-008	EB2300086-009	EB2300086-010
				Result	Result	Result	Result	Result
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	µg/L	470	460	440	390	480
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	20	µg/L	600	570	550	500	600
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	410	370	360	330	380
EP080: BTEXN								
Benzene	71-43-2	1	µg/L	<1	<1	<1	<1	<1
Toluene	108-88-3	2	µg/L	72	91	69	56	75
Ethylbenzene	100-41-4	2	µg/L	19	17	18	17	22
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	66	62	65	64	81
ortho-Xylene	95-47-6	2	µg/L	35	34	36	35	45
^ Total Xylenes	----	2	µg/L	101	96	101	99	126
^ Sum of BTEX	----	1	µg/L	192	204	188	172	223
Naphthalene	91-20-3	5	µg/L	11	13	11	11	10
EP080S: TPH(V)/BTEX Surrogates								
1,2-Dichloroethane-D4	17060-07-0	2	%	106	107	103	109	106
Toluene-D8	2037-26-5	2	%	101	101	100	103	102
4-Bromofluorobenzene	460-00-4	2	%	102	100	102	104	104



Analytical Results

Sub-Matrix: **TCLP ZHE LEACHATE**
 (Matrix: **WATER**)

				Sample ID	BN0717	BN0718	BN0720	----	----
				Sampling date / time	04-Jan-2023 11:06	04-Jan-2023 11:07	04-Jan-2023 11:08	----	----
Compound	CAS Number	LOR	Unit		EB2300086-011	EB2300086-012	EB2300086-013	-----	-----
					Result	Result	Result	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	20	µg/L		730	620	530	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	20	µg/L		820	740	650	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L		450	400	350	----	----
EP080: BTEXN									
Benzene	71-43-2	1	µg/L		<1	<1	<1	----	----
Toluene	108-88-3	2	µg/L		110	87	74	----	----
Ethylbenzene	100-41-4	2	µg/L		36	35	31	----	----
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L		156	152	137	----	----
ortho-Xylene	95-47-6	2	µg/L		67	69	60	----	----
^ Total Xylenes	----	2	µg/L		223	221	197	----	----
^ Sum of BTEX	----	1	µg/L		369	343	302	----	----
Naphthalene	91-20-3	5	µg/L		9	10	11	----	----
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	2	%		108	106	107	----	----
Toluene-D8	2037-26-5	2	%		104	105	102	----	----
4-Bromofluorobenzene	460-00-4	2	%		104	106	101	----	----

Analytical Results

Descriptive Results

Sub-Matrix: **SOIL**

Method: Compound	Sample ID - Sampling date / time	Analytical Results
EA200: AS 4964 - 2004 Identification of Asbestos in Soils		
EA200: Description	BN0709 - 04-Jan-2023 10:59	Soil sample.
EA200: Description	BN0710 - 04-Jan-2023 11:00	Soil sample.
EA200: Description	BN0711 - 04-Jan-2023 11:01	Soil sample.
EA200: Description	BN0716 - 04-Jan-2023 11:04	Soil sample.
EA200: Description	BN0717 - 04-Jan-2023 11:06	Soil sample.



Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	10	138
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	23	134
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	53	134
Toluene-D8	2037-26-5	60	131
4-Bromofluorobenzene	460-00-4	59	127
EP231_TOP_S: PFAS Surrogate			
13C4-PFOS	----	47	129
13C8-PFOA	----	56	128
EP231S: PFAS Surrogate			
13C4-PFOS	----	76	136
13C8-PFOA	----	78	131

Sub-Matrix: TCLP LEACHATE		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	45	139
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	45	139
EP231_TOP_S: PFAS Surrogate			
13C4-PFOS	----	55	131
13C8-PFOA	----	66	128
EP231S: PFAS Surrogate			
13C4-PFOS	----	65	140
13C8-PFOA	----	71	133

Sub-Matrix: TCLP ZHE LEACHATE		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	66	138
Toluene-D8	2037-26-5	79	120
4-Bromofluorobenzene	460-00-4	74	118

Inter-Laboratory Testing

Analysis conducted by ALS Newcastle, NATA accreditation no. 825, site no. 1656 (Chemistry) 9854 (Biology).

(SOIL) EA200: AS 4964 - 2004 Identification of Asbestos in Soils

CERTIFICATE OF ANALYSIS

Work Order : **EB2302026**
Client : **HI QUALITY**
Contact : **SEAN HARROLD**
Address :
Telephone :
Project : **Treated Solid Waste**
Order number :
C-O-C number : **47589**
Sampler : **JASON WELCH, SEAN HARROLD**
Site : **Yatala WTS**
Quote number : **EN333 - ALS Compass Sites**
No. of samples received : **7**
No. of samples analysed : **7**

Page : 1 of 28
Laboratory : Environmental Division Brisbane
Contact : Customer Services EB
Address : 2 Byth Street Stafford QLD Australia 4053
Telephone : +61-7-3243 7222
Date Samples Received : 25-Jan-2023 15:55
Date Analysis Commenced : 27-Jan-2023
Issue Date : 09-Feb-2023 14:37



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
- Descriptive 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.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Alana Smylie	Team Leader - Asbestos	Newcastle - Asbestos, Mayfield West, NSW
Beatriz Llarinas	Senior Chemist - Inorganics	Brisbane Inorganics, Stafford, QLD
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Matt Frost	Assistant Laboratory Manager	Brisbane Organics, Stafford, QLD
Timothy Creagh	Senior Chemist - Organics	Brisbane Organics, Stafford, QLD



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.

- EP231X - Per- and Polyfluoroalkyl Substances (PFAS): Samples received in 20ml or 125ml bottles have been tested in accordance with the QSM5.3 compliant, NATA accredited method. 60mL or 250mL bottles have been tested to the legacy QSM 5.1 aligned, NATA accredited method.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EG048G (Hexavalent Chromium by Alkaline Digestion): Sample EB2302026_001 (BN0742) Shows poor matrix spike recovery due to sample heterogeneity. Confirmed by re-extraction and re-analysis.
- EP231X PFAS: Particular samples required dilution prior to analysis due to matrix interferences. LOR values have been adjusted accordingly. Matrix Spike recovery not determined.
- EP080 - TRH Volatiles/BTEX: Sample 'BN0743' shows poor matrix spike recovery due to heterogeneity. Confirmed by visual inspection.
- EP231X(TOP) PFAS TOPA: Particular samples required dilution due to sample matrix. LOR values have been adjusted accordingly.
- EG050G (Hexavalent Chromium): Some samples were diluted due to matrix interference. LOR adjusted accordingly.
- EG005T (Total Metals by ICP-AES): BN0743 (EB2302026-002) shows poor matrix spike recovery due to sample heterogeneity. This has been confirmed by visual inspection.
- EP071 (TRH Semivolatile): Sample 'BN0746' shows poor duplicate results due to sample heterogeneity. Confirmed by visual inspection.
- EP231X (TOP) PFAS: The LOR values of PFHxS for samples "BN0742" & "BN0746" have been raised due to matrix interference.
- EA200 'Am' Amosite (brown asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)
- EA200 'Trace' - Asbestos fibres ("Free Fibres") detected by trace analysis per AS4964. The result can be interpreted that the sample contains detectable 'respirable' asbestos fibres
- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.
- EA200 Legend
- EA200 'Ch' Chrysotile (white asbestos)
- EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.
- EA200: For samples larger than 30g, the <2mm fraction may be sub-sampled prior to trace analysis as outlined in ISO23909:2008(E) Sect 6.3.2-2
- EA200: 'Yes' - Asbestos detected by polarised light microscopy including dispersion staining.
- EA200: 'No*' - No asbestos found, at the reporting limit of 0.1g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at concentrations estimated to be below 0.1g/kg.
- EA200: 'No' - No asbestos found at the reporting limit 0.1g/kg, by polarised light microscopy including dispersion staining.



- 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.
- EN33: Where leachable PFAS analysis is requested, centrifugation rather than pressure filtration is used as the default approach for removal of particulates, in line with AS 4439.3.



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0742	BN0743	BN0744	BN0745	BN0746
Sampling date / time					25-Jan-2023 08:53	25-Jan-2023 08:54	25-Jan-2023 08:55	25-Jan-2023 08:56	25-Jan-2023 08:57
Compound	CAS Number	LOR	Unit		EB2302026-001	EB2302026-002	EB2302026-003	EB2302026-004	EB2302026-005
					Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%		7.6	9.0	9.7	12.4	10.1
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg		----	No	----	No	----
Asbestos (Trace)	1332-21-4	5	Fibres		----	No	----	No	----
Asbestos Type	1332-21-4	-	--		----	-	----	-	----
Sample weight (dry)	----	0.01	g		----	60.1	----	44.1	----
APPROVED IDENTIFIER:	----	-	--		----	A. SMYLIE	----	A. SMYLIE	----
Synthetic Mineral Fibre	----	-	--		----	No	----	No	----
Organic Fibre	----	-	--		----	No	----	No	----
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		12	13	15	17	16
Cadmium	7440-43-9	1	mg/kg		<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg		11	13	14	14	11
Copper	7440-50-8	5	mg/kg		40	43	55	51	46
Lead	7439-92-1	5	mg/kg		28	33	39	33	30
Nickel	7440-02-0	2	mg/kg		11	13	14	17	16
Zinc	7440-66-6	5	mg/kg		209	244	282	204	190
EG048: Hexavalent Chromium (Alkaline Digest)									
Hexavalent Chromium	18540-29-9	0.5	mg/kg		<2.0	<2.0	<2.0	<2.0	<2.0
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)									
Initial pH	----	0.1	pH Unit		8.4	8.3	8.8	9.4	8.0
After HCl pH	----	0.1	pH Unit		1.5	1.4	1.6	1.4	1.5
Extraction Fluid Number	----	1	-		1	1	1	1	1
Final pH	----	0.1	pH Unit		5.3	5.3	5.3	5.4	5.3
EN33: TCLP Leach - Inorganics/PFAS (Plastic Vessel)									
Initial pH	----	0.1	pH Unit		8.4	8.3	----	----	8.0
After HCl pH	----	0.1	pH Unit		1.5	1.5	----	----	1.4
Extraction Fluid Number	----	1	-		1	1	----	----	1
Final pH	----	0.1	pH Unit		5.3	5.3	----	----	5.2
EN33Z: ZHE TCLP Leach									
Extraction Fluid Number	----	0.1	pH Unit		4.9	4.9	4.9	4.9	4.9
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		23	19	15	17	11
C10 - C14 Fraction	----	50	mg/kg		1020	1190	1360	1210	1390



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0742	BN0743	BN0744	BN0745	BN0746
Sampling date / time					25-Jan-2023 08:53	25-Jan-2023 08:54	25-Jan-2023 08:55	25-Jan-2023 08:56	25-Jan-2023 08:57
Compound	CAS Number	LOR	Unit		EB2302026-001	EB2302026-002	EB2302026-003	EB2302026-004	EB2302026-005
					Result	Result	Result	Result	Result
EP080/071: Total Petroleum Hydrocarbons - Continued									
C15 - C28 Fraction	----	100	mg/kg		8550	10400	11200	10500	11300
C29 - C36 Fraction	----	100	mg/kg		2080	2650	2810	2560	2690
^ C10 - C36 Fraction (sum)	----	50	mg/kg		11600	14200	15400	14300	15400
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		28	25	25	30	19
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		14	14	21	26	18
>C10 - C16 Fraction	----	50	mg/kg		2180	2560	2860	2600	2930
>C16 - C34 Fraction	----	100	mg/kg		9220	11300	12200	11300	12100
>C34 - C40 Fraction	----	100	mg/kg		940	1230	1300	1180	1250
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		12300	15100	16400	15100	16300
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		2180	2560	2860	2600	2930
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		2.9	1.9	0.7	0.6	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		1.5	1.1	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		6.6	5.2	2.2	2.0	1.0
ortho-Xylene	95-47-6	0.5	mg/kg		2.8	2.3	1.0	0.9	<0.5
^ Sum of BTEX	----	0.2	mg/kg		13.8	10.5	3.9	3.5	1.0
^ Total Xylenes	----	0.5	mg/kg		9.4	7.5	3.2	2.9	1.0
Naphthalene	91-20-3	1	mg/kg		2	2	1	<1	1
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		<0.0002	<0.0002	----	----	<0.0002
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg		<0.0002	<0.0002	----	----	<0.0002
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		<0.0004	0.0004	----	----	<0.0004
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg		<0.0002	<0.0002	----	----	<0.0002
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		0.0076	0.0075	----	----	0.0055
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg		0.0004	0.0002	----	----	<0.0002



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN0742	BN0743	BN0744	BN0745	BN0746
Sampling date / time				25-Jan-2023 08:53	25-Jan-2023 08:54	25-Jan-2023 08:55	25-Jan-2023 08:56	25-Jan-2023 08:57
Compound	CAS Number	LOR	Unit	EB2302026-001	EB2302026-002	EB2302026-003	EB2302026-004	EB2302026-005
				Result	Result	Result	Result	Result
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	0.007	0.007	----	----	0.002
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	0.0188	0.0166	----	----	0.0047
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0083	0.0079	----	----	0.0033
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	0.0056	0.0053	----	----	0.0026
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0024	0.0025	----	----	0.0020
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	0.0014	0.0019	----	----	0.0013
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	0.0007	0.0008	----	----	0.0006
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	0.0005	0.0009	----	----	0.0005
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.0002	----	----	0.0003
Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	----	----	<0.0002
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	----	----	<0.0005
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	----	----	<0.0002
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	<0.0005	----	----	<0.0005
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	<0.0005	----	----	<0.0005
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	<0.0005	----	----	<0.0005
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	<0.0005	----	----	<0.0005
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	<0.0002	----	----	<0.0002
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	<0.0002	----	----	<0.0002
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	----	----	<0.0005



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0742	BN0743	BN0744	BN0745	BN0746
Sampling date / time					25-Jan-2023 08:53	25-Jan-2023 08:54	25-Jan-2023 08:55	25-Jan-2023 08:56	25-Jan-2023 08:57
Compound	CAS Number	LOR	Unit		EB2302026-001	EB2302026-002	EB2302026-003	EB2302026-004	EB2302026-005
					Result	Result	Result	Result	Result
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids - Continued									
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg		<0.0005	<0.0005	----	----	<0.0005
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		<0.0005	<0.0005	----	----	<0.0005
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		<0.0005	<0.0005	----	----	<0.0005
EP231_TOP_P: PFAS Sums									
Sum of PFAS	----	0.0002	mg/kg		0.0527	0.0512	----	----	0.0228
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		0.0076	0.0079	----	----	0.0055
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.0002	mg/kg		0.0523	0.0510	----	----	0.0228
Sum of TOP C4 - C14 as Fluorine	----	0.0002	mg/kg		0.0345	0.0336	----	----	0.0151
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		<0.0002	<0.0002	----	----	<0.0002
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg		<0.0002	<0.0002	----	----	<0.0002
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		<0.0010	<0.0010	----	----	<0.0004
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg		<0.0002	<0.0002	----	----	<0.0002
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		0.0093	0.0079	----	----	0.0097
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg		<0.0002	<0.0002	----	----	<0.0002
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		<0.001	<0.001	----	----	<0.001
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg		0.0007	0.0008	----	----	0.0009
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg		0.0004	0.0004	----	----	0.0004
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg		0.0006	0.0006	----	----	0.0004
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg		0.0010	0.0009	----	----	0.0010
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg		0.0006	0.0007	----	----	0.0007
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg		<0.0005	<0.0005	----	----	0.0002



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN0742	BN0743	BN0744	BN0745	BN0746
Sampling date / time				25-Jan-2023 08:53	25-Jan-2023 08:54	25-Jan-2023 08:55	25-Jan-2023 08:56	25-Jan-2023 08:57
Compound	CAS Number	LOR	Unit	EB2302026-001	EB2302026-002	EB2302026-003	EB2302026-004	EB2302026-005
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0005	<0.0005	----	----	0.0004
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0005	<0.0005	----	----	<0.0002
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0005	<0.0005	----	----	<0.0002
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	----	----	<0.0005
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0005	<0.0005	----	----	<0.0002
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0012	<0.0013	----	----	<0.0005
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0012	<0.0013	----	----	<0.0012
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0012	<0.0013	----	----	<0.0012
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0012	<0.0013	----	----	<0.0005
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0005	<0.0005	----	----	<0.0002
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0005	<0.0005	----	----	<0.0002
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	----	----	<0.0005
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	0.0010	0.0012	----	----	0.0018
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	0.0023	0.0026	----	----	0.0028
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.0011	----	----	0.0011
EP231P: PFAS Sums								
Sum of PFAS	----	0.0002	mg/kg	0.0159	0.0162	----	----	0.0194



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0742	BN0743	BN0744	BN0745	BN0746
Sampling date / time					25-Jan-2023 08:53	25-Jan-2023 08:54	25-Jan-2023 08:55	25-Jan-2023 08:56	25-Jan-2023 08:57
Compound	CAS Number	LOR	Unit		EB2302026-001	EB2302026-002	EB2302026-003	EB2302026-004	EB2302026-005
					Result	Result	Result	Result	Result
EP231P: PFAS Sums - Continued									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		0.0093	0.0079	----	----	0.0097
Sum of PFAS (WA DER List)	----	0.0002	mg/kg		0.0153	0.0144	----	----	0.0170
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%		104	95.5	92.3	100	102
Toluene-D8	2037-26-5	0.2	%		91.3	81.6	71.9	89.4	83.6
4-Bromofluorobenzene	460-00-4	0.2	%		108	106	92.8	101	106
EP231_TOP_S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		99.8	102	----	----	96.1
13C8-PFOA	----	0.0002	%		101	99.2	----	----	106
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		86.5	116	----	----	117
13C8-PFOA	----	0.0002	%		110	102	----	----	102



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0747	BN0748	----	----	----
Sampling date / time					25-Jan-2023 08:58	25-Jan-2023 08:59	----	----	----
Compound	CAS Number	LOR	Unit		EB2302026-006	EB2302026-007	-----	-----	-----
				Result	Result		----	----	----
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%		12.4	14.4	----	----	----
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		19	19	----	----	----
Cadmium	7440-43-9	1	mg/kg		<1	<1	----	----	----
Chromium	7440-47-3	2	mg/kg		12	12	----	----	----
Copper	7440-50-8	5	mg/kg		39	41	----	----	----
Lead	7439-92-1	5	mg/kg		28	54	----	----	----
Nickel	7440-02-0	2	mg/kg		19	18	----	----	----
Zinc	7440-66-6	5	mg/kg		162	289	----	----	----
EG048: Hexavalent Chromium (Alkaline Digest)									
Hexavalent Chromium	18540-29-9	0.5	mg/kg		<2.0	<2.0	----	----	----
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)									
Initial pH	----	0.1	pH Unit		8.1	8.7	----	----	----
After HCl pH	----	0.1	pH Unit		1.4	1.4	----	----	----
Extraction Fluid Number	----	1	-		1	1	----	----	----
Final pH	----	0.1	pH Unit		5.2	5.2	----	----	----
EN33: TCLP Leach - Inorganics/PFAS (Plastic Vessel)									
Initial pH	----	0.1	pH Unit		8.1	8.7	----	----	----
After HCl pH	----	0.1	pH Unit		1.4	1.4	----	----	----
Extraction Fluid Number	----	1	-		1	1	----	----	----
Final pH	----	0.1	pH Unit		5.2	5.2	----	----	----
EN33Z: ZHE TCLP Leach									
Extraction Fluid Number	----	0.1	pH Unit		4.9	4.9	----	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		11	160	----	----	----
C10 - C14 Fraction	----	50	mg/kg		1290	1600	----	----	----
C15 - C28 Fraction	----	100	mg/kg		10300	10500	----	----	----
C29 - C36 Fraction	----	100	mg/kg		2400	3880	----	----	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg		14000	16000	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		19	244	----	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		18	176	----	----	----
>C10 - C16 Fraction	----	50	mg/kg		2660	2720	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0747	BN0748	----	----	----
Sampling date / time					25-Jan-2023 08:58	25-Jan-2023 08:59	----	----	----
Compound	CAS Number	LOR	Unit		EB2302026-006	EB2302026-007	-----	-----	-----
					Result	Result	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
>C16 - C34 Fraction	----	100	mg/kg		11000	12500	----	----	----
>C34 - C40 Fraction	----	100	mg/kg		1150	1800	----	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		14800	17000	----	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		2660	2720	----	----	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	----	----	----
Toluene	108-88-3	0.5	mg/kg		<0.5	17.2	----	----	----
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	6.6	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		0.8	30.9	----	----	----
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	13.1	----	----	----
^ Sum of BTEX	----	0.2	mg/kg		0.8	67.8	----	----	----
^ Total Xylenes	----	0.5	mg/kg		0.8	44.0	----	----	----
Naphthalene	91-20-3	1	mg/kg		<1	3	----	----	----
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		<0.0002	<0.0003	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg		<0.0002	<0.0003	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		0.0003	0.0007	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg		<0.0002	<0.0003	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		0.0066	0.0159	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg		<0.0002	<0.0003	----	----	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		0.003	0.002	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg		0.0080	0.0057	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg		0.0049	0.0061	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg		0.0041	0.0036	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg		0.0024	0.0035	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg		0.0014	0.0029	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg		0.0008	0.0008	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0747	BN0748	----	----	----
Sampling date / time					25-Jan-2023 08:58	25-Jan-2023 08:59	----	----	----
Compound	CAS Number	LOR	Unit		EB2302026-006	EB2302026-007	-----	-----	-----
				Result	Result		----	----	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids - Continued									
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg		0.0006	0.0010	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg		0.0003	0.0004	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg		<0.0002	0.0004	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg		<0.0005	<0.0006	----	----	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg		<0.0002	<0.0003	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg		<0.0005	<0.0006	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg		<0.0005	<0.0006	----	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg		<0.0005	<0.0006	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg		<0.0005	<0.0006	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg		<0.0002	<0.0003	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg		<0.0002	<0.0003	----	----	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg		<0.0005	<0.0005	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg		<0.0005	<0.0005	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		<0.0005	<0.0005	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		<0.0005	<0.0005	----	----	----
EP231_TOP_P: PFAS Sums									
Sum of PFAS	----	0.0002	mg/kg		0.0324	0.0430	----	----	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN0747	BN0748	----	----	----
Sampling date / time				25-Jan-2023 08:58	25-Jan-2023 08:59	----	----	----
Compound	CAS Number	LOR	Unit	EB2302026-006	EB2302026-007	-----	-----	-----
Result				Result	Result	----	----	----

EP231_TOP_P: PFAS Sums - Continued

Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	0.0069	0.0166	----	----	----
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.0002	mg/kg	0.0324	0.0430	----	----	----
Sum of TOP C4 - C14 as Fluorine	----	0.0002	mg/kg	0.0214	0.0284	----	----	----

EP231A: Perfluoroalkyl Sulfonic Acids

Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	<0.0002	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	<0.0004	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	<0.0002	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0072	0.0182	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	----	----	----

EP231B: Perfluoroalkyl Carboxylic Acids

Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	0.0006	0.0004	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0003	0.0004	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	0.0003	0.0003	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0006	0.0006	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	0.0004	0.0020	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	0.0003	0.0014	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	----	----	----
Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.0004	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	----	----	----

EP231C: Perfluoroalkyl Sulfonamides

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0747	BN0748	----	----	----
Sampling date / time				25-Jan-2023 08:58	25-Jan-2023 08:59	----	----	----	
Compound	CAS Number	LOR	Unit	EB2302026-006	EB2302026-007	-----	-----	-----	
				Result	Result	----	----	----	
EP231C: Perfluoroalkyl Sulfonamides - Continued									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	----	----	----	
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	<0.0005	----	----	----	
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	<0.0005	----	----	----	
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0013	<0.0012	----	----	----	
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	<0.0005	----	----	----	
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	<0.0002	----	----	----	
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	<0.0002	----	----	----	
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	----	----	----	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	0.0009	0.0012	----	----	----	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	0.0020	0.0016	----	----	----	
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	0.0009	0.0008	----	----	----	
EP231P: PFAS Sums									
Sum of PFAS	----	0.0002	mg/kg	0.0135	0.0273	----	----	----	
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	0.0072	0.0182	----	----	----	
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	0.0119	0.0227	----	----	----	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%	98.7	96.5	----	----	----	
Toluene-D8	2037-26-5	0.2	%	95.0	90.6	----	----	----	
4-Bromofluorobenzene	460-00-4	0.2	%	110	104	----	----	----	
EP231 TOP S: PFAS Surrogate									



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0747	BN0748	----	----	----
Sampling date / time					25-Jan-2023 08:58	25-Jan-2023 08:59	----	----	----
Compound	CAS Number	LOR	Unit		EB2302026-006	EB2302026-007	-----	-----	-----
					Result	Result	----	----	----
EP231_TOP_S: PFAS Surrogate - Continued									
13C4-PFOS	----	0.0002	%		95.0	105	----	----	----
13C8-PFOA	----	0.0002	%		105	118	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		130	106	----	----	----
13C8-PFOA	----	0.0002	%		104	104	----	----	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0742	BN0743	BN0744	BN0745	BN0746
Sampling date / time				25-Jan-2023 08:53	25-Jan-2023 08:54	25-Jan-2023 08:55	25-Jan-2023 08:56	25-Jan-2023 08:57
Compound	CAS Number	LOR	Unit	EB2302026-001	EB2302026-002	EB2302026-003	EB2302026-004	EB2302026-005
				Result	Result	Result	Result	Result
EG005(ED093)C: Leachable Metals by ICPAES								
Arsenic	7440-38-2	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium	7440-43-9	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Chromium	7440-47-3	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Copper	7440-50-8	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	7440-02-0	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc	7440-66-6	0.1	mg/L	2.7	3.2	2.5	2.2	2.5
EP080/071: Total Petroleum Hydrocarbons								
C10 - C14 Fraction	----	50	µg/L	1170	3000	1510	1500	1500
C15 - C28 Fraction	----	100	µg/L	1050	1550	1470	1630	1490
C29 - C36 Fraction	----	50	µg/L	60	100	80	80	80
^ C10 - C36 Fraction (sum)	----	50	µg/L	2280	4650	3060	3210	3070
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	100	µg/L	1430	3330	1860	1910	1850
>C16 - C34 Fraction	----	100	µg/L	880	1260	1180	1280	1200
>C34 - C40 Fraction	----	100	µg/L	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	100	µg/L	2310	4590	3040	3190	3050
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	1420	3320	1850	1900	1850
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.05	<0.05	----	----	<0.05
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.05	<0.05	----	----	<0.05
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.05	<0.05	----	----	<0.05
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.05	<0.05	----	----	<0.05
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.18	0.16	----	----	0.06
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.05	<0.05	----	----	<0.05
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.2	<0.2	----	----	<0.2
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	0.05	0.06	----	----	<0.05



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0742	BN0743	BN0744	BN0745	BN0746
Sampling date / time				25-Jan-2023 08:53	25-Jan-2023 08:54	25-Jan-2023 08:55	25-Jan-2023 08:56	25-Jan-2023 08:57
Compound	CAS Number	LOR	Unit	EB2302026-001	EB2302026-002	EB2302026-003	EB2302026-004	EB2302026-005
				Result	Result	Result	Result	Result
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	0.05	<0.05	----	----	<0.05
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.05	<0.05	----	----	<0.05
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.05	<0.05	----	----	<0.05
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.05	<0.05	----	----	<0.05
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.05	<0.05	----	----	<0.05
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.05	<0.05	----	----	<0.05
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.05	<0.05	----	----	<0.05
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.05	<0.05	----	----	<0.05
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.12	<0.12	----	----	<0.12
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.05	<0.05	----	----	<0.05
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.12	<0.12	----	----	<0.12
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.12	<0.12	----	----	<0.12
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.12	<0.12	----	----	<0.12
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.12	<0.12	----	----	<0.12
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.05	<0.05	----	----	<0.05
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.05	<0.05	----	----	<0.05
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	----	----	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	----	----	<0.05



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0742	BN0743	BN0744	BN0745	BN0746
Sampling date / time				25-Jan-2023 08:53	25-Jan-2023 08:54	25-Jan-2023 08:55	25-Jan-2023 08:56	25-Jan-2023 08:57
Compound	CAS Number	LOR	Unit	EB2302026-001	EB2302026-002	EB2302026-003	EB2302026-004	EB2302026-005
				Result	Result	Result	Result	Result
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids - Continued								
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	----	----	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	----	----	<0.05
EP231_TOP_P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	0.28	0.22	----	----	0.06
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	0.18	0.16	----	----	0.06
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.01	µg/L	0.28	0.22	----	----	0.06
^ Sum of TOP C4 - C14 as Fluorine	----	0.01	µg/L	0.18	0.14	----	----	<0.05
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	----	----	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	----	----	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	0.01	<0.01	----	----	<0.01
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	----	----	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.22	0.20	----	----	0.10
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	----	----	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	----	----	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	----	----	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	0.03	0.02	----	----	<0.02
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	0.02	0.02	----	----	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	0.04	0.03	----	----	0.03
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	----	----	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	----	----	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	----	----	<0.02



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0742	BN0743	BN0744	BN0745	BN0746
Sampling date / time				25-Jan-2023 08:53	25-Jan-2023 08:54	25-Jan-2023 08:55	25-Jan-2023 08:56	25-Jan-2023 08:57
Compound	CAS Number	LOR	Unit	EB2302026-001	EB2302026-002	EB2302026-003	EB2302026-004	EB2302026-005
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	----	----	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	----	----	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	----	----	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	----	----	<0.02
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	----	----	<0.05
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	----	----	<0.05
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	----	----	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	----	----	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	----	----	<0.02
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	----	----	<0.02
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	----	----	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	0.08	0.07	----	----	0.06
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	0.07	0.06	----	----	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	----	----	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	0.47	0.40	----	----	0.19
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	0.23	0.20	----	----	0.10



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

				Sample ID	BN0742	BN0743	BN0744	BN0745	BN0746
Sampling date / time					25-Jan-2023 08:53	25-Jan-2023 08:54	25-Jan-2023 08:55	25-Jan-2023 08:56	25-Jan-2023 08:57
Compound	CAS Number	LOR	Unit		EB2302026-001	EB2302026-002	EB2302026-003	EB2302026-004	EB2302026-005
				Result	Result	Result	Result	Result	Result
EP231P: PFAS Sums - Continued									
Sum of PFAS (WA DER List)	----	0.01	µg/L		0.47	0.40	----	----	0.19
EP231_TOP_S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		81.0	81.5	----	----	71.5
13C8-PFOA	----	0.02	%		99.5	94.0	----	----	91.0
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		92.2	100	----	----	92.4
13C8-PFOA	----	0.02	%		97.6	94.3	----	----	97.4



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0747	BN0748	----	----	----
Sampling date / time				25-Jan-2023 08:58	25-Jan-2023 08:59	----	----	----
Compound	CAS Number	LOR	Unit	EB2302026-006	EB2302026-007	-----	-----	-----
Result				Result	Result	----	----	----
EG005(ED093)C: Leachable Metals by ICPAES								
Arsenic	7440-38-2	0.1	mg/L	<0.1	<0.1	----	----	----
Cadmium	7440-43-9	0.05	mg/L	<0.05	<0.05	----	----	----
Chromium	7440-47-3	0.1	mg/L	<0.1	<0.1	----	----	----
Copper	7440-50-8	0.1	mg/L	<0.1	<0.1	----	----	----
Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	----	----	----
Nickel	7440-02-0	0.1	mg/L	<0.1	<0.1	----	----	----
Zinc	7440-66-6	0.1	mg/L	2.0	1.6	----	----	----
EP080/071: Total Petroleum Hydrocarbons								
C10 - C14 Fraction	----	50	µg/L	1610	1690	----	----	----
C15 - C28 Fraction	----	100	µg/L	1490	1260	----	----	----
C29 - C36 Fraction	----	50	µg/L	80	70	----	----	----
^ C10 - C36 Fraction (sum)	----	50	µg/L	3180	3020	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	100	µg/L	1960	1900	----	----	----
>C16 - C34 Fraction	----	100	µg/L	1220	990	----	----	----
>C34 - C40 Fraction	----	100	µg/L	<100	<100	----	----	----
^ >C10 - C40 Fraction (sum)	----	100	µg/L	3180	2890	----	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	1960	1880	----	----	----
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.05	<0.05	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.05	<0.05	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.05	<0.05	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.05	<0.05	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.10	0.14	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.05	<0.05	----	----	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.2	<0.2	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.05	<0.05	----	----	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0747	BN0748	----	----	----
Sampling date / time				25-Jan-2023 08:58	25-Jan-2023 08:59	----	----	----
Compound	CAS Number	LOR	Unit	EB2302026-006	EB2302026-007	-----	-----	-----
Result				Result	Result	----	----	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.05	<0.05	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.05	<0.05	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.05	<0.05	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.05	<0.05	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.05	<0.05	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.05	<0.05	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.05	<0.05	----	----	----
Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.02	µg/L	<0.05	<0.05	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.12	<0.12	----	----	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.05	<0.05	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.12	<0.12	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.12	<0.12	----	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.12	<0.12	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.12	<0.12	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.05	<0.05	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.05	<0.05	----	----	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	----	----	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0747	BN0748	----	----	----
Sampling date / time				25-Jan-2023 08:58	25-Jan-2023 08:59	----	----	----
Compound	CAS Number	LOR	Unit	EB2302026-006	EB2302026-007	-----	-----	-----
Result				Result	Result	----	----	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids - Continued								
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	----	----	----
EP231_TOP_P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	0.10	0.14	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	0.10	0.14	----	----	----
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.01	µg/L	0.10	0.14	----	----	----
^ Sum of TOP C4 - C14 as Fluorine	----	0.01	µg/L	0.06	0.09	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.02	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.13	0.40	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	0.02	0.02	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.06	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	----	----	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0747	BN0748	----	----	----
Sampling date / time				25-Jan-2023 08:58	25-Jan-2023 08:59	----	----	----
Compound	CAS Number	LOR	Unit	EB2302026-006	EB2302026-007	-----	-----	-----
				Result	Result	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	----	----	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	----	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	0.05	0.06	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	0.06	<0.05	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	----	----	----
EP231P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	0.26	0.56	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	0.13	0.42	----	----	----



Analytical Results

Sub-Matrix: **TCLP LEACHATE**
 (Matrix: **WATER**)

				Sample ID	BN0747	BN0748			
				Sampling date / time	25-Jan-2023 08:58	25-Jan-2023 08:59	----	----	----
Compound	CAS Number	LOR	Unit		EB2302026-006	EB2302026-007	-----	-----	-----
					Result	Result	----	----	----
EP231P: PFAS Sums - Continued									
Sum of PFAS (WA DER List)	----	0.01	µg/L		0.26	0.50	----	----	----
EP231_TOP_S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		84.5	68.5	----	----	----
13C8-PFOA	----	0.02	%		98.0	85.0	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		82.5	87.9	----	----	----
13C8-PFOA	----	0.02	%		94.6	96.8	----	----	----



Analytical Results

Sub-Matrix: TCLP ZHE LEACHATE
 (Matrix: WATER)

Sample ID

				BN0742	BN0743	BN0744	BN0745	BN0746
Sampling date / time				25-Jan-2023 08:53	25-Jan-2023 08:54	25-Jan-2023 08:55	25-Jan-2023 08:56	25-Jan-2023 08:57
Compound	CAS Number	LOR	Unit	EB2302026-001	EB2302026-002	EB2302026-003	EB2302026-004	EB2302026-005
				Result	Result	Result	Result	Result
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	µg/L	300	190	80	70	30
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	20	µg/L	360	220	110	60	90
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	170	110	60	20	80
EP080: BTEXN								
Benzene	71-43-2	1	µg/L	<1	<1	<1	<1	<1
Toluene	108-88-3	2	µg/L	59	28	11	8	2
Ethylbenzene	100-41-4	2	µg/L	19	11	4	3	<2
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	76	48	23	18	7
ortho-Xylene	95-47-6	2	µg/L	38	25	11	10	3
^ Total Xylenes	----	2	µg/L	114	73	34	28	10
^ Sum of BTEX	----	1	µg/L	192	112	49	39	12
Naphthalene	91-20-3	5	µg/L	10	9	6	6	<5
EP080S: TPH(V)/BTEX Surrogates								
1,2-Dichloroethane-D4	17060-07-0	2	%	101	96.6	98.5	97.9	110
Toluene-D8	2037-26-5	2	%	108	105	105	106	97.4
4-Bromofluorobenzene	460-00-4	2	%	104	105	107	109	109



Analytical Results

Sub-Matrix: **TCLP ZHE LEACHATE**
 (Matrix: **WATER**)

				Sample ID	BN0747	BN0748			
				Sampling date / time	25-Jan-2023 08:58	25-Jan-2023 08:59	----	----	----
Compound	CAS Number	LOR	Unit		EB2302026-006	EB2302026-007	-----	-----	-----
					Result	Result	----	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	20	µg/L		20	1060	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	20	µg/L		40	1320	----	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L		30	580	----	----	----
EP080: BTEXN									
Benzene	71-43-2	1	µg/L		<1	2	----	----	----
Toluene	108-88-3	2	µg/L		2	243	----	----	----
Ethylbenzene	100-41-4	2	µg/L		<2	70	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L		4	288	----	----	----
ortho-Xylene	95-47-6	2	µg/L		<2	142	----	----	----
^ Total Xylenes	----	2	µg/L		4	430	----	----	----
^ Sum of BTEX	----	1	µg/L		6	745	----	----	----
Naphthalene	91-20-3	5	µg/L		<5	16	----	----	----
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	2	%		97.8	99.1	----	----	----
Toluene-D8	2037-26-5	2	%		99.2	108	----	----	----
4-Bromofluorobenzene	460-00-4	2	%		100	104	----	----	----

Analytical Results

Descriptive Results

Sub-Matrix: **SOIL**

Method: Compound	Sample ID - Sampling date / time	Analytical Results
EA200: AS 4964 - 2004 Identification of Asbestos in Soils		
EA200: Description	BN0743 - 25-Jan-2023 08:54	Soil sample.
EA200: Description	BN0745 - 25-Jan-2023 08:56	Soil sample.



Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	53	134
Toluene-D8	2037-26-5	60	131
4-Bromofluorobenzene	460-00-4	59	127
EP231_TOP_S: PFAS Surrogate			
13C4-PFOS	----	47	129
13C8-PFOA	----	56	128
EP231S: PFAS Surrogate			
13C4-PFOS	----	76	136
13C8-PFOA	----	78	131

Sub-Matrix: TCLP LEACHATE		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231_TOP_S: PFAS Surrogate			
13C4-PFOS	----	55	131
13C8-PFOA	----	66	128
EP231S: PFAS Surrogate			
13C4-PFOS	----	65	140
13C8-PFOA	----	71	133

Sub-Matrix: TCLP ZHE LEACHATE		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	66	138
Toluene-D8	2037-26-5	79	120
4-Bromofluorobenzene	460-00-4	74	118

Inter-Laboratory Testing

Analysis conducted by ALS Newcastle, NATA accreditation no. 825, site no. 1656 (Chemistry) 9854 (Biology).

(SOIL) EA200: AS 4964 - 2004 Identification of Asbestos in Soils

CERTIFICATE OF ANALYSIS

Work Order : **EB2303246**
Client : **HI QUALITY**
Contact : **JASON WELCH**
Address : **CNR ELIZABETH DR & MAMRE RD**
KEMPS CREEK NSW 2178
Telephone : **07 3059 5009**
Project : **Treated Solid Waste**
Order number :
C-O-C number : **48052**
Sampler : **JASON WELCH, SEAN HARROLD**
Site : **Yatala WTS**
Quote number : **EN333 - ALS Compass Sites**
No. of samples received : **8**
No. of samples analysed : **8**

Page : 1 of 28
Laboratory : Environmental Division Brisbane
Contact : Customer Services EB
Address : 2 Byth Street Stafford QLD Australia 4053
Telephone : +61-7-3243 7222
Date Samples Received : 08-Feb-2023 16:22
Date Analysis Commenced : 10-Feb-2023
Issue Date : 21-Feb-2023 16:16



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
- Descriptive 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.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Beatriz Llarinas	Senior Chemist - Inorganics	Brisbane Inorganics, Stafford, QLD
Keegan Mullane	Senior Chemist - Organics	Brisbane Organics, Stafford, QLD
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
MINNIE TRAN	Approved Asbestos Identifier	Melbourne Asbestos, Springvale, VIC
Timothy Creagh	Senior Chemist - Organics	Brisbane Organics, Stafford, QLD



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.

- EP231X - Per- and Polyfluoroalkyl Substances (PFAS): Samples received in 20ml or 125ml bottles have been tested in accordance with the QSM5.3 compliant, NATA accredited method. 60mL or 250mL bottles have been tested to the legacy QSM 5.1 aligned, NATA accredited method.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EG048G (Hexavalent Chromium by Alkaline Digestion): Sample EB2303246_001 (BN0760) shows poor matrix spike recovery due to matrix interference. Confirmed by re-extraction and re-analysis.
- EG048G (Hexavalent Chromium by Alkaline Digestion): Sample EB2303246_002 Shows poor matrix spike recovery due to matrix interference. Confirmed by re-extraction and re-analysis.
- EP231X (TOP) PFAS: Samples "BN0764" & "BN0766" required dilution due to the presence of high level contaminants. LOR values have been adjusted accordingly. The LOR values of PFHxS have been further raised due to matrix interferences.
- EP231X PFAS: Sample "BN0768" required dilution prior to analysis due to matrix interference. LOR values have been adjusted accordingly.
- EP080 TRH Volatiles/BTEX: Sample "BN0762" shows Poor matrix spike recovery due to matrix interference.
- EP231X PFAS: The LOR of particular analytes have been raised due to sample matrix interferences.
- EP071 (TRH Semivolatile): Matrix spike recovery not determined due to dilution of primary sample.
- EG005T (Total Metals by ICP-AES): BN0760 (EB2303246-001) shows poor duplicate results due to sample heterogeneity. This has been confirmed by visual inspection.
- EG005T (Total Metals by ICP-AES): BN0762 (EB2303246-002) shows poor matrix spike recovery due to sample heterogeneity. This has been confirmed by visual inspection.
- EG048G (Hexavalent Chromium by Alkaline Digestion): Sample EB2303670-005 (BN0760) was diluted due to matrix interference. LOR adjusted accordingly.
- EG048G (Hexavalent Chromium by Alkaline Digest): Some samples were diluted due to matrix interference. LOR adjusted accordingly.
- EA200 'Am' Amosite (brown asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)
- EA200 'Trace' - Asbestos fibres ("Free Fibres") detected by trace analysis per AS4964. The result can be interpreted that the sample contains detectable 'respirable' asbestos fibres
- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.
- EA200 Legend
- EA200 'Ch' Chrysotile (white asbestos)
- EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.
- EA200: For samples larger than 30g, the <2mm fraction may be sub-sampled prior to trace analysis as outlined in ISO23909:2008(E) Sect 6.3.2-2
- EA200: 'Yes' - Asbestos detected by polarised light microscopy including dispersion staining.
- EA200: 'No*' - No asbestos found, at the reporting limit of 0.1g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at concentrations estimated to be below 0.1g/kg.



- EA200: 'No' - No asbestos found at the reporting limit 0.1g/kg, by polarised light microscopy including dispersion staining.
- 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.
- EN33: Where leachable PFAS analysis is requested, centrifugation rather than pressure filtration is used as the default approach for removal of particulates, in line with AS 4439.3.



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN0760	BN0762	BN0763	BN0764	BN0765
Sampling date / time				07-Feb-2023 10:07	07-Feb-2023 10:08	07-Feb-2023 10:08	07-Feb-2023 10:09	07-Feb-2023 10:10
Compound	CAS Number	LOR	Unit	EB2303246-001	EB2303246-002	EB2303246-003	EB2303246-004	EB2303246-005
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	7.2	8.2	10.0	12.4	14.6
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	----	----	----	No	----
Asbestos (Trace)	1332-21-4	5	Fibres	----	----	----	No	----
Asbestos Type	1332-21-4	-	--	----	----	----	-	----
Sample weight (dry)	----	0.01	g	----	----	----	57.0	----
APPROVED IDENTIFIER:	----	-	--	----	----	----	M. TRAN	----
Synthetic Mineral Fibre	----	-	--	----	----	----	No	----
Organic Fibre	----	-	--	----	----	----	Yes	----
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	10	10	14	13	10
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	13	13	16	7	13
Copper	7440-50-8	5	mg/kg	42	42	64	24	34
Lead	7439-92-1	5	mg/kg	29	39	85	14	52
Nickel	7440-02-0	2	mg/kg	12	11	15	13	12
Zinc	7440-66-6	5	mg/kg	200	224	603	118	175
EG048: Hexavalent Chromium (Alkaline Digest)								
Hexavalent Chromium	18540-29-9	0.5	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)								
Initial pH	----	0.1	pH Unit	7.6	8.7	9.0	8.9	9.2
After HCl pH	----	0.1	pH Unit	1.5	1.5	1.6	1.6	1.6
Extraction Fluid Number	----	1	-	1	1	1	1	1
Final pH	----	0.1	pH Unit	5.2	5.0	5.2	5.4	5.5
EN33: TCLP Leach - Inorganics/PFAS (Plastic Vessel)								
Initial pH	----	0.1	pH Unit	7.6	8.7	----	8.9	----
After HCl pH	----	0.1	pH Unit	1.5	1.5	----	1.6	----
Extraction Fluid Number	----	1	-	1	1	----	1	----
Final pH	----	0.1	pH Unit	5.2	5.0	----	5.4	----
EN33Z: ZHE TCLP Leach								
Extraction Fluid Number	----	0.1	pH Unit	5.0	5.0	5.0	5.0	5.0
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	17	110
C10 - C14 Fraction	----	50	mg/kg	250	270	310	430	340



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0760	BN0762	BN0763	BN0764	BN0765
Sampling date / time					07-Feb-2023 10:07	07-Feb-2023 10:08	07-Feb-2023 10:08	07-Feb-2023 10:09	07-Feb-2023 10:10
Compound	CAS Number	LOR	Unit		EB2303246-001	EB2303246-002	EB2303246-003	EB2303246-004	EB2303246-005
					Result	Result	Result	Result	Result
EP080/071: Total Petroleum Hydrocarbons - Continued									
C15 - C28 Fraction	----	100	mg/kg		2570	2770	3240	2930	3240
C29 - C36 Fraction	----	100	mg/kg		690	810	960	900	940
^ C10 - C36 Fraction (sum)	----	50	mg/kg		3510	3850	4510	4260	4520
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	14	11	28	113
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	12	<10	23	25
>C10 - C16 Fraction	----	50	mg/kg		570	610	690	770	670
>C16 - C34 Fraction	----	100	mg/kg		2790	3060	3590	3260	3640
>C34 - C40 Fraction	----	100	mg/kg		320	380	450	430	400
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		3680	4050	4730	4460	4710
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		570	610	690	770	660
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	0.8	0.6	1.0	3.9
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	0.7	12.6
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	1.1	0.9	2.4	56.6
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	0.9	15.1
^ Sum of BTEX	----	0.2	mg/kg		<0.2	1.9	1.5	5.0	88.2
^ Total Xylenes	----	0.5	mg/kg		<0.5	1.1	0.9	3.3	71.7
Naphthalene	91-20-3	1	mg/kg		2	2	2	2	10
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		<0.0002	<0.0002	----	<0.0005	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg		<0.0002	<0.0002	----	<0.0005	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		0.0004	0.0004	----	<0.0006	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg		<0.0002	<0.0002	----	<0.0005	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		0.0094	0.0090	----	0.0107	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg		<0.0002	<0.0002	----	<0.0005	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN0760	BN0762	BN0763	BN0764	BN0765
Sampling date / time				07-Feb-2023 10:07	07-Feb-2023 10:08	07-Feb-2023 10:08	07-Feb-2023 10:09	07-Feb-2023 10:10
Compound	CAS Number	LOR	Unit	EB2303246-001	EB2303246-002	EB2303246-003	EB2303246-004	EB2303246-005
				Result	Result	Result	Result	Result
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	0.004	0.003	----	0.054	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	0.0067	0.0057	----	0.128	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0069	0.0058	----	0.107	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	0.0052	0.0046	----	0.0664	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0045	0.0040	----	0.0184	----
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	0.0018	0.0017	----	0.0111	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	0.0010	0.0010	----	0.0074	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	0.0007	0.0007	----	0.0034	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	0.0004	0.0004	----	0.0026	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.0002	----	0.0010	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	----	<0.0013	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	----	<0.0005	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	<0.0005	----	<0.0013	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	<0.0005	----	<0.0013	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	<0.0005	----	<0.0013	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	<0.0005	----	<0.0013	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	<0.0002	----	<0.0005	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	<0.0002	----	<0.0005	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	----	<0.0005	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0760	BN0762	BN0763	BN0764	BN0765
Sampling date / time					07-Feb-2023 10:07	07-Feb-2023 10:08	07-Feb-2023 10:08	07-Feb-2023 10:09	07-Feb-2023 10:10
Compound	CAS Number	LOR	Unit		EB2303246-001	EB2303246-002	EB2303246-003	EB2303246-004	EB2303246-005
					Result	Result	Result	Result	Result
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids - Continued									
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg		<0.0005	<0.0005	----	<0.0005	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		<0.0005	<0.0005	----	<0.0005	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		<0.0005	<0.0005	----	<0.0005	----
EP231_TOP_P: PFAS Sums									
Sum of PFAS	----	0.0002	mg/kg		0.0410	0.0365	----	0.410	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		0.0098	0.0094	----	0.0107	----
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.0002	mg/kg		0.0410	0.0365	----	0.410	----
Sum of TOP C4 - C14 as Fluorine	----	0.0002	mg/kg		0.0271	0.0242	----	0.270	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		<0.0002	<0.0002	----	<0.0002	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg		<0.0002	<0.0002	----	<0.0002	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		0.0006	<0.0006	----	<0.0004	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg		<0.0002	<0.0002	----	<0.0002	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		0.0072	0.0094	----	0.0097	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg		<0.0004	<0.0002	----	<0.0008	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		<0.002	<0.009	----	<0.003	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg		0.0006	0.0007	----	<0.0010	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg		0.0006	0.0007	----	0.0008	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg		0.0004	0.0005	----	0.0005	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg		0.0010	0.0010	----	0.0009	----
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg		0.0007	0.0009	----	0.0008	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg		0.0003	0.0003	----	0.0003	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN0760	BN0762	BN0763	BN0764	BN0765
Sampling date / time				07-Feb-2023 10:07	07-Feb-2023 10:08	07-Feb-2023 10:08	07-Feb-2023 10:09	07-Feb-2023 10:10
Compound	CAS Number	LOR	Unit	EB2303246-001	EB2303246-002	EB2303246-003	EB2303246-004	EB2303246-005
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	0.0006	0.0006	----	0.0006	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	----	<0.0002	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	----	<0.0004	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	----	<0.0005	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	----	<0.0002	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	<0.0005	----	<0.0005	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	<0.0005	----	<0.0005	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	<0.0005	----	<0.0005	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	<0.0005	----	<0.0005	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	<0.0002	----	<0.0002	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	<0.0002	----	<0.0002	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	----	<0.0005	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	0.0020	0.0023	----	0.0021	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	0.0030	0.0032	----	0.0025	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	0.0016	0.0015	----	0.0010	----
EP231P: PFAS Sums								
Sum of PFAS	----	0.0002	mg/kg	0.0186	0.0211	----	0.0192	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0760	BN0762	BN0763	BN0764	BN0765
Sampling date / time					07-Feb-2023 10:07	07-Feb-2023 10:08	07-Feb-2023 10:08	07-Feb-2023 10:09	07-Feb-2023 10:10
Compound	CAS Number	LOR	Unit		EB2303246-001	EB2303246-002	EB2303246-003	EB2303246-004	EB2303246-005
					Result	Result	Result	Result	Result
EP231P: PFAS Sums - Continued									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		0.0078	0.0094	----	0.0097	----
Sum of PFAS (WA DER List)	----	0.0002	mg/kg		0.0154	0.0178	----	0.0165	----
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%		102	102	90.9	85.0	85.1
Toluene-D8	2037-26-5	0.2	%		100	111	98.5	94.4	96.9
4-Bromofluorobenzene	460-00-4	0.2	%		107	124	111	106	98.4
EP231_TOP_S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		102	96.6	----	Not Determined	----
13C8-PFOA	----	0.0002	%		89.8	96.6	----	Not Determined	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		84.0	88.0	----	95.0	----
13C8-PFOA	----	0.0002	%		106	105	----	110	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0766	BN0767	BN0768	----	----
Sampling date / time					07-Feb-2023 10:10	07-Feb-2023 10:11	07-Feb-2023 10:12	----	----
Compound	CAS Number	LOR	Unit		EB2303246-006	EB2303246-007	EB2303246-008	-----	-----
					Result	Result	Result	----	----
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%		11.7	17.1	12.0	----	----
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		18	23	<5	----	----
Cadmium	7440-43-9	1	mg/kg		<1	<1	<1	----	----
Chromium	7440-47-3	2	mg/kg		10	14	5	----	----
Copper	7440-50-8	5	mg/kg		35	52	12	----	----
Lead	7439-92-1	5	mg/kg		28	40	9	----	----
Nickel	7440-02-0	2	mg/kg		18	23	4	----	----
Zinc	7440-66-6	5	mg/kg		232	307	73	----	----
EG048: Hexavalent Chromium (Alkaline Digest)									
Hexavalent Chromium	18540-29-9	0.5	mg/kg		<2.0	<2.0	<2.0	----	----
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)									
Initial pH	----	0.1	pH Unit		9.7	9.7	9.0	----	----
After HCl pH	----	0.1	pH Unit		1.5	1.6	1.5	----	----
Extraction Fluid Number	----	1	-		1	1	1	----	----
Final pH	----	0.1	pH Unit		5.5	6.1	5.4	----	----
EN33: TCLP Leach - Inorganics/PFAS (Plastic Vessel)									
Initial pH	----	0.1	pH Unit		9.7	----	9.0	----	----
After HCl pH	----	0.1	pH Unit		1.5	----	1.5	----	----
Extraction Fluid Number	----	1	-		1	----	1	----	----
Final pH	----	0.1	pH Unit		5.5	----	5.4	----	----
EN33Z: ZHE TCLP Leach									
Extraction Fluid Number	----	0.1	pH Unit		5.0	5.0	5.0	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		19	23	147	----	----
C10 - C14 Fraction	----	50	mg/kg		530	500	1250	----	----
C15 - C28 Fraction	----	100	mg/kg		3130	2950	11800	----	----
C29 - C36 Fraction	----	100	mg/kg		960	910	3320	----	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg		4620	4360	16400	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		35	39	147	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		29	33	30	----	----
>C10 - C16 Fraction	----	50	mg/kg		860	860	2390	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0766	BN0767	BN0768	----	----
Sampling date / time					07-Feb-2023 10:10	07-Feb-2023 10:11	07-Feb-2023 10:12	----	----
Compound	CAS Number	LOR	Unit		EB2303246-006	EB2303246-007	EB2303246-008	-----	-----
					Result	Result	Result	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
>C16 - C34 Fraction	----	100	mg/kg		3480	3270	13400	----	----
>C34 - C40 Fraction	----	100	mg/kg		450	430	1470	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		4790	4560	17300	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		860	860	2380	----	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	----	----
Toluene	108-88-3	0.5	mg/kg		0.8	0.8	9.6	----	----
Ethylbenzene	100-41-4	0.5	mg/kg		0.8	0.9	18.2	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		2.9	3.1	70.7	----	----
ortho-Xylene	95-47-6	0.5	mg/kg		1.2	1.4	18.3	----	----
^ Sum of BTEX	----	0.2	mg/kg		5.7	6.2	117	----	----
^ Total Xylenes	----	0.5	mg/kg		4.1	4.5	89.0	----	----
Naphthalene	91-20-3	1	mg/kg		5	5	7	----	----
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		<0.0005	----	<0.0002	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg		<0.0005	----	<0.0002	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		<0.0010	----	0.0003	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg		<0.0005	----	<0.0002	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		0.0099	----	0.0059	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg		<0.0005	----	<0.0002	----	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		0.050	----	0.009	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg		0.111	----	0.0173	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg		0.0923	----	0.0068	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg		0.0586	----	0.0048	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg		0.0184	----	0.0026	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg		0.0113	----	0.0012	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg		0.0072	----	0.0006	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0766	BN0767	BN0768	----	----
Sampling date / time					07-Feb-2023 10:10	07-Feb-2023 10:11	07-Feb-2023 10:12	----	----
Compound	CAS Number	LOR	Unit		EB2303246-006	EB2303246-007	EB2303246-008	-----	-----
				Result	Result	Result	Result	----	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids - Continued									
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg		0.0036	----	0.0004	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg		0.0027	----	<0.0002	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg		0.0010	----	<0.0002	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg		<0.0013	----	<0.0005	----	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg		<0.0005	----	<0.0002	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg		<0.0013	----	<0.0005	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg		<0.0013	----	<0.0005	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg		<0.0013	----	<0.0005	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg		<0.0013	----	<0.0005	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg		<0.0005	----	<0.0002	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg		<0.0005	----	<0.0002	----	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg		<0.0005	----	<0.0005	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg		<0.0005	----	<0.0005	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		<0.0005	----	<0.0005	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		<0.0005	----	<0.0005	----	----
EP231_TOP_P: PFAS Sums									
Sum of PFAS	----	0.0002	mg/kg		0.366	----	0.0489	----	----

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0766	BN0767	BN0768	----	----
Sampling date / time				07-Feb-2023 10:10	07-Feb-2023 10:11	07-Feb-2023 10:12	----	----	
Compound	CAS Number	LOR	Unit	EB2303246-006	EB2303246-007	EB2303246-008	-----	-----	
				Result	Result	Result	----	----	
EP231_TOP_P: PFAS Sums - Continued									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	0.0099	----	0.0062	----	----	
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.0002	mg/kg	0.366	----	0.0489	----	----	
Sum of TOP C4 - C14 as Fluorine	----	0.0002	mg/kg	0.241	----	0.0319	----	----	
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	----	<0.0002	----	----	
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	----	<0.0002	----	----	
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0004	----	<0.0004	----	----	
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	----	<0.0002	----	----	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0094	----	0.0052	----	----	
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0012	----	<0.0002	----	----	
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.003	----	<0.002	----	----	
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0012	----	<0.0006	----	----	
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0009	----	<0.0006	----	----	
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	0.0004	----	0.0003	----	----	
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0012	----	0.0008	----	----	
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	0.0008	----	0.0005	----	----	
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	0.0003	----	0.0002	----	----	
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	0.0007	----	0.0004	----	----	
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	----	<0.0002	----	----	
Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.0002	mg/kg	<0.0003	----	<0.0002	----	----	
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	----	<0.0005	----	----	
EP231C: Perfluoroalkyl Sulfonamides									

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0766	BN0767	BN0768	----	----
Sampling date / time				07-Feb-2023 10:10	07-Feb-2023 10:11	07-Feb-2023 10:12	----	----	
Compound	CAS Number	LOR	Unit	EB2303246-006	EB2303246-007	EB2303246-008	-----	-----	
				Result	Result	Result	----	----	
EP231C: Perfluoroalkyl Sulfonamides - Continued									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	----	<0.0002	----	----	
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	----	<0.0005	----	----	
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	----	<0.0005	----	----	
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	----	<0.0005	----	----	
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	----	<0.0005	----	----	
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	----	<0.0002	----	----	
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	----	<0.0002	----	----	
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	----	<0.0005	----	----	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	0.0020	----	0.0012	----	----	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	0.0032	----	0.0020	----	----	
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	0.0013	----	0.0009	----	----	
EP231P: PFAS Sums									
Sum of PFAS	----	0.0002	mg/kg	0.0202	----	0.0115	----	----	
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	0.0094	----	0.0052	----	----	
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	0.0171	----	0.0095	----	----	
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%	80.5	78.4	81.6	----	----	
Toluene-D8	2037-26-5	0.2	%	89.6	90.9	103	----	----	
4-Bromofluorobenzene	460-00-4	0.2	%	105	103	101	----	----	
EP231 TOP S: PFAS Surrogate									



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

				Sample ID	BN0766	BN0767	BN0768		
Sampling date / time					07-Feb-2023 10:10	07-Feb-2023 10:11	07-Feb-2023 10:12	----	----
Compound	CAS Number	LOR	Unit		EB2303246-006	EB2303246-007	EB2303246-008	-----	-----
					Result	Result	Result	----	----
EP231_TOP_S: PFAS Surrogate - Continued									
13C4-PFOS	----	0.0002	%		Not Determined	----	79.8	----	----
13C8-PFOA	----	0.0002	%		Not Determined	----	85.0	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		94.5	----	89.5	----	----
13C8-PFOA	----	0.0002	%		103	----	104	----	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0760	BN0762	BN0763	BN0764	BN0765
Sampling date / time				07-Feb-2023 10:07	07-Feb-2023 10:08	07-Feb-2023 10:08	07-Feb-2023 10:09	07-Feb-2023 10:10
Compound	CAS Number	LOR	Unit	EB2303246-001	EB2303246-002	EB2303246-003	EB2303246-004	EB2303246-005
				Result	Result	Result	Result	Result
EG005(ED093)C: Leachable Metals by ICPAES								
Arsenic	7440-38-2	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium	7440-43-9	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Chromium	7440-47-3	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Copper	7440-50-8	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	7440-02-0	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc	7440-66-6	0.1	mg/L	3.2	3.2	3.0	3.5	3.7
EP080/071: Total Petroleum Hydrocarbons								
C10 - C14 Fraction	----	50	µg/L	1860	1950	2410	9720	4490
C15 - C28 Fraction	----	100	µg/L	2100	2310	2230	2460	2380
C29 - C36 Fraction	----	50	µg/L	160	170	180	180	180
^ C10 - C36 Fraction (sum)	----	50	µg/L	4120	4430	4820	12400	7050
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	100	µg/L	2380	2260	2650	9420	4900
>C16 - C34 Fraction	----	100	µg/L	1620	1800	1730	1670	1800
>C34 - C40 Fraction	----	100	µg/L	<160	160	180	170	170
^ >C10 - C40 Fraction (sum)	----	100	µg/L	4000	4220	4560	11300	6870
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	2370	2250	2640	9410	4860
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.10	<0.10	----	<0.10	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.10	<0.10	----	<0.10	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.10	<0.10	----	<0.10	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.10	<0.10	----	<0.10	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.10	<0.10	----	<0.10	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.10	<0.10	----	<0.10	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.5	<0.5	----	<0.5	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.10	<0.10	----	0.18	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0760	BN0762	BN0763	BN0764	BN0765
Sampling date / time				07-Feb-2023 10:07	07-Feb-2023 10:08	07-Feb-2023 10:08	07-Feb-2023 10:09	07-Feb-2023 10:10
Compound	CAS Number	LOR	Unit	EB2303246-001	EB2303246-002	EB2303246-003	EB2303246-004	EB2303246-005
				Result	Result	Result	Result	Result
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.10	<0.10	----	<0.10	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.10	<0.10	----	<0.10	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.10	<0.10	----	<0.10	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.10	<0.10	----	<0.10	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.10	<0.10	----	<0.10	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.10	<0.10	----	<0.10	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.10	<0.10	----	<0.10	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.10	<0.10	----	<0.10	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.25	<0.25	----	<0.25	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.10	<0.10	----	<0.10	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.25	<0.25	----	<0.25	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.25	<0.25	----	<0.25	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.25	<0.25	----	<0.25	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.25	<0.25	----	<0.25	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.10	<0.10	----	<0.10	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.10	<0.10	----	<0.10	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.10	<0.10	----	<0.10	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.10	<0.10	----	<0.10	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0760	BN0762	BN0763	BN0764	BN0765
Sampling date / time				07-Feb-2023 10:07	07-Feb-2023 10:08	07-Feb-2023 10:08	07-Feb-2023 10:09	07-Feb-2023 10:10
Compound	CAS Number	LOR	Unit	EB2303246-001	EB2303246-002	EB2303246-003	EB2303246-004	EB2303246-005
				Result	Result	Result	Result	Result
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids - Continued								
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.10	<0.10	----	<0.10	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.10	<0.10	----	<0.10	----
EP231_TOP_P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	<0.10	<0.10	----	0.18	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.10	<0.10	----	<0.10	----
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.01	µg/L	<0.10	<0.10	----	0.18	----
^ Sum of TOP C4 - C14 as Fluorine	----	0.01	µg/L	<0.10	<0.10	----	0.12	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	----	<0.02	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	----	<0.02	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.02	----	<0.02	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	----	<0.02	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.06	0.08	----	0.10	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	----	<0.02	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	----	<0.1	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.04	<0.04	----	<0.04	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	0.02	0.02	----	0.02	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	0.02	0.02	----	0.02	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	0.03	0.03	----	0.03	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	----	<0.02	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	----	<0.02	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	----	<0.02	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0760	BN0762	BN0763	BN0764	BN0765
Sampling date / time				07-Feb-2023 10:07	07-Feb-2023 10:08	07-Feb-2023 10:08	07-Feb-2023 10:09	07-Feb-2023 10:10
Compound	CAS Number	LOR	Unit	EB2303246-001	EB2303246-002	EB2303246-003	EB2303246-004	EB2303246-005
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	----	<0.02	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	----	<0.02	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	----	<0.05	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	----	<0.02	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	----	<0.05	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	----	<0.05	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	----	<0.05	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	----	<0.05	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	----	<0.02	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	----	<0.02	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	----	<0.05	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	0.09	0.09	----	0.08	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	----	<0.05	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	----	<0.05	----
EP231P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	0.22	0.24	----	0.25	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	0.06	0.08	----	0.10	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

				Sample ID	BN0760	BN0762	BN0763	BN0764	BN0765
Sampling date / time					07-Feb-2023 10:07	07-Feb-2023 10:08	07-Feb-2023 10:08	07-Feb-2023 10:09	07-Feb-2023 10:10
Compound	CAS Number	LOR	Unit		EB2303246-001	EB2303246-002	EB2303246-003	EB2303246-004	EB2303246-005
					Result	Result	Result	Result	Result
EP231P: PFAS Sums - Continued									
Sum of PFAS (WA DER List)	----	0.01	µg/L		0.22	0.24	----	0.25	----
EP231_TOP_S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		78.5	90.0	----	95.0	----
13C8-PFOA	----	0.02	%		87.0	86.0	----	88.5	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		97.1	101	----	108	----
13C8-PFOA	----	0.02	%		92.0	89.6	----	93.4	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0766	BN0767	BN0768	----	----
Sampling date / time				07-Feb-2023 10:10	07-Feb-2023 10:11	07-Feb-2023 10:12	----	----
Compound	CAS Number	LOR	Unit	EB2303246-006	EB2303246-007	EB2303246-008	-----	-----
				Result	Result	Result	----	----
EG005(ED093)C: Leachable Metals by ICPAES								
Arsenic	7440-38-2	0.1	mg/L	<0.1	<0.1	<0.1	----	----
Cadmium	7440-43-9	0.05	mg/L	<0.05	<0.05	<0.05	----	----
Chromium	7440-47-3	0.1	mg/L	<0.1	<0.1	<0.1	----	----
Copper	7440-50-8	0.1	mg/L	<0.1	<0.1	<0.1	----	----
Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	<0.1	----	----
Nickel	7440-02-0	0.1	mg/L	<0.1	<0.1	<0.1	----	----
Zinc	7440-66-6	0.1	mg/L	3.1	2.0	2.6	----	----
EP080/071: Total Petroleum Hydrocarbons								
C10 - C14 Fraction	----	50	µg/L	8420	11000	3850	----	----
C15 - C28 Fraction	----	100	µg/L	2670	2880	1650	----	----
C29 - C36 Fraction	----	50	µg/L	230	210	170	----	----
^ C10 - C36 Fraction (sum)	----	50	µg/L	11300	14100	5670	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	100	µg/L	7660	10900	4060	----	----
>C16 - C34 Fraction	----	100	µg/L	1940	1880	1280	----	----
>C34 - C40 Fraction	----	100	µg/L	190	180	160	----	----
^ >C10 - C40 Fraction (sum)	----	100	µg/L	9790	13000	5500	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	7640	10900	4000	----	----
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.10	----	<0.10	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.10	----	<0.10	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.10	----	<0.10	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.10	----	<0.10	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.10	----	<0.10	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.10	----	<0.10	----	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.5	----	<0.5	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	0.16	----	<0.10	----	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0766	BN0767	BN0768	----	----
Sampling date / time				07-Feb-2023 10:10	07-Feb-2023 10:11	07-Feb-2023 10:12	----	----
Compound	CAS Number	LOR	Unit	EB2303246-006	EB2303246-007	EB2303246-008	-----	-----
				Result	Result	Result	----	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.10	----	<0.10	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.10	----	<0.10	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.10	----	<0.10	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.10	----	<0.10	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.10	----	<0.10	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.10	----	<0.10	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.10	----	<0.10	----	----
Perfluorotridecanoic acid (PFTTrDA)	72629-94-8	0.02	µg/L	<0.10	----	<0.10	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.25	----	<0.25	----	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.10	----	<0.10	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.25	----	<0.25	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.25	----	<0.25	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.25	----	<0.25	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.25	----	<0.25	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.10	----	<0.10	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.10	----	<0.10	----	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.10	----	<0.10	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.10	----	<0.10	----	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0766	BN0767	BN0768	----	----
Sampling date / time				07-Feb-2023 10:10	07-Feb-2023 10:11	07-Feb-2023 10:12	----	----
Compound	CAS Number	LOR	Unit	EB2303246-006	EB2303246-007	EB2303246-008	-----	-----
				Result	Result	Result	----	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids - Continued								
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.10	----	<0.10	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.10	----	<0.10	----	----
EP231_TOP_P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	0.16	----	<0.10	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.10	----	<0.10	----	----
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.01	µg/L	0.16	----	<0.10	----	----
^ Sum of TOP C4 - C14 as Fluorine	----	0.01	µg/L	0.10	----	<0.10	----	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	----	<0.02	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	----	<0.02	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.02	----	<0.02	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	----	<0.02	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.13	----	0.12	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	----	<0.02	----	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	----	<0.1	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.04	----	<0.04	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	0.02	----	<0.05	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	0.02	----	<0.02	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	0.03	----	0.03	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	----	<0.02	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	----	<0.02	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	----	<0.02	----	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0766	BN0767	BN0768	----	----
Sampling date / time				07-Feb-2023 10:10	07-Feb-2023 10:11	07-Feb-2023 10:12	----	----
Compound	CAS Number	LOR	Unit	EB2303246-006	EB2303246-007	EB2303246-008	-----	-----
				Result	Result	Result	----	----
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	----	<0.02	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	----	<0.02	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	----	<0.05	----	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	----	<0.02	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	----	<0.05	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	----	<0.05	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	----	<0.05	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	----	<0.05	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	----	<0.02	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	----	<0.02	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	----	<0.05	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	0.09	----	0.08	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	0.05	----	<0.05	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	----	<0.05	----	----
EP231P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	0.34	----	0.23	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	0.13	----	0.12	----	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

				Sample ID	BN0766	BN0767	BN0768		
Sampling date / time					07-Feb-2023 10:10	07-Feb-2023 10:11	07-Feb-2023 10:12	----	----
Compound	CAS Number	LOR	Unit		EB2303246-006	EB2303246-007	EB2303246-008	-----	-----
Result					Result	Result	Result	----	----
EP231P: PFAS Sums - Continued									
Sum of PFAS (WA DER List)	----	0.01	µg/L		0.34	----	0.23	----	----
EP231_TOP_S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		91.5	----	100	----	----
13C8-PFOA	----	0.02	%		84.5	----	92.5	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		105	----	105	----	----
13C8-PFOA	----	0.02	%		93.4	----	95.4	----	----



Analytical Results

Sub-Matrix: ZHE LEACHATE
 (Matrix: WATER)

Sample ID

				BN0760	BN0762	BN0763	BN0764	BN0765
Sampling date / time				07-Feb-2023 10:07	07-Feb-2023 10:08	07-Feb-2023 10:08	07-Feb-2023 10:09	07-Feb-2023 10:10
Compound	CAS Number	LOR	Unit	EB2303246-001	EB2303246-002	EB2303246-003	EB2303246-004	EB2303246-005
				Result	Result	Result	Result	Result
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	µg/L	20	50	40	100	870
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	20	µg/L	30	60	60	140	920
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	30	40	40	100	300
EP080: BTEXN								
Benzene	71-43-2	1	µg/L	<1	<1	<1	<1	<1
Toluene	108-88-3	2	µg/L	<2	8	7	10	41
Ethylbenzene	100-41-4	2	µg/L	<2	<2	<2	5	87
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	2	8	8	17	369
ortho-Xylene	95-47-6	2	µg/L	<2	4	4	8	118
^ Total Xylenes	----	2	µg/L	2	12	12	25	487
^ Sum of BTEX	----	1	µg/L	2	20	19	40	615
Naphthalene	91-20-3	5	µg/L	9	10	10	9	45
EP080S: TPH(V)/BTEX Surrogates								
1,2-Dichloroethane-D4	17060-07-0	2	%	109	112	114	112	109
Toluene-D8	2037-26-5	2	%	94.9	99.1	99.5	97.7	101
4-Bromofluorobenzene	460-00-4	2	%	102	105	110	100	99.6



Analytical Results

Sub-Matrix: **ZHE LEACHATE**
 (Matrix: **WATER**)

				Sample ID	BN0766	BN0767	BN0768	----	----
				Sampling date / time	07-Feb-2023 10:10	07-Feb-2023 10:11	07-Feb-2023 10:12	----	----
Compound	CAS Number	LOR	Unit		EB2303246-006	EB2303246-007	EB2303246-008	-----	-----
					Result	Result	Result	----	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	20	µg/L		120	110	2020	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	20	µg/L		190	160	2120	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L		150	120	680	----	----
EP080: BTEXN									
Benzene	71-43-2	1	µg/L		<1	<1	<1	----	----
Toluene	108-88-3	2	µg/L		8	8	165	----	----
Ethylbenzene	100-41-4	2	µg/L		5	5	212	----	----
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L		16	19	818	----	----
ortho-Xylene	95-47-6	2	µg/L		9	10	246	----	----
^ Total Xylenes	----	2	µg/L		25	29	1060	----	----
^ Sum of BTEX	----	1	µg/L		38	42	1440	----	----
Naphthalene	91-20-3	5	µg/L		20	20	59	----	----
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	2	%		97.2	97.7	105	----	----
Toluene-D8	2037-26-5	2	%		100	101	102	----	----
4-Bromofluorobenzene	460-00-4	2	%		98.6	99.4	101	----	----

Analytical Results

Descriptive Results

Sub-Matrix: **SOIL**

Method: Compound	Sample ID - Sampling date / time	Analytical Results
EA200: AS 4964 - 2004 Identification of Asbestos in Soils		
EA200: Description	BN0764 - 07-Feb-2023 10:09	Brown rocky soil with organic matter.



Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	53	134
Toluene-D8	2037-26-5	60	131
4-Bromofluorobenzene	460-00-4	59	127
EP231_TOP_S: PFAS Surrogate			
13C4-PFOS	----	47	129
13C8-PFOA	----	56	128
EP231S: PFAS Surrogate			
13C4-PFOS	----	76	136
13C8-PFOA	----	78	131

Sub-Matrix: TCLP LEACHATE		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231_TOP_S: PFAS Surrogate			
13C4-PFOS	----	55	131
13C8-PFOA	----	66	128
EP231S: PFAS Surrogate			
13C4-PFOS	----	65	140
13C8-PFOA	----	71	133

Sub-Matrix: ZHE LEACHATE		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	66	138
Toluene-D8	2037-26-5	79	120
4-Bromofluorobenzene	460-00-4	74	118

Inter-Laboratory Testing

Analysis conducted by ALS Melbourne, NATA accreditation no. 825, site no. 13778 (Chemistry).

(SOIL) EA200: AS 4964 - 2004 Identification of Asbestos in Soils



CERTIFICATE OF ANALYSIS

Work Order : **EB2314575**
Client : **HI QUALITY**
Contact : **EMILY GIBSON**
Address :
Telephone : **07 30595009**
Project : **Treated Solid Waste**
Order number :
C-O-C number : **52341**
Sampler : **EMILY GIBSON**
Site : **Yatala WTS**
Quote number : **EN333 - ALS Compass Sites**
No. of samples received : **14**
No. of samples analysed : **14**

Page : 1 of 39
Laboratory : **Environmental Division Brisbane**
Contact : **Customer Services EB**
Address : **2 Byth Street Stafford QLD Australia 4053**
Telephone : **+61-7-3243 7222**
Date Samples Received : **16-May-2023 11:07**
Date Analysis Commenced : **18-May-2023**
Issue Date : **26-May-2023 16:00**



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
- Descriptive 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.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Beatriz Llarinas	Senior Chemist - Inorganics	Brisbane Inorganics, Stafford, QLD
Matt Frost	Assistant Laboratory Manager	Brisbane Organics, Stafford, QLD
MINNIE TRAN	Approved Asbestos Identifier	Melbourne Asbestos, Springvale, VIC
Timothy Creagh	Senior Chemist - Organics	Brisbane Organics, Stafford, QLD



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.

- EP231X PFAS: Sample 'BN0912' (EB2314575_001) shows poor duplicate results due to sample heterogeneity. Confirmed by visual inspection.
- EP231X - Per- and Polyfluoroalkyl Substances (PFAS): Samples received in 20ml or 125ml bottles have been tested in accordance with the QSM5.3 compliant, NATA accredited method. 60mL or 250mL bottles have been tested to the legacy QSM 5.1 aligned, NATA accredited method.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EG005T (Total Metals by ICP-AES): Sample BN0925 (EB2314575-011) shows poor duplicate results due to sample heterogeneity. Confirmed by visual inspection.
- EG005T (Total Metals by ICP-AES): Sample BN0914 (EB2314575-002) shows poor matrix spike recovery due to sample heterogeneity. Confirmed by visual inspection.
- It is recognised that EG005T (Total Metals by ICP-AES) is less than EG005C (Leachable Metals by ICP-AES) for 'BN0924' (EB2314575-010) due to sample heterogeneity. Confirmed by visual inspection.
- EP231X (TOP) PFAS TOPA: Particular samples required dilution prior to extraction due to matrix interferences. LOR values have been adjusted accordingly.
- EP231X PFAS: The LOR values of particular analytes have been raised for particular samples due to matrix interferences.
- EA200 'Am' Amosite (brown asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)
- EA200 'Trace' - Asbestos fibres ("Free Fibres") detected by trace analysis per AS4964. The result can be interpreted that the sample contains detectable 'respirable' asbestos fibres
- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.
- EA200 Legend
- EA200 'Ch' Chrysotile (white asbestos)
- EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.
- EA200: For samples larger than 30g, the <2mm fraction may be sub-sampled prior to trace analysis as outlined in ISO23909:2008(E) Sect 6.3.2-2
- EA200: 'Yes' - Asbestos detected by polarised light microscopy including dispersion staining.
- EA200: 'No*' - No asbestos found, at the reporting limit of 0.1g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at concentrations estimated to be below 0.1g/kg.
- EA200: 'No' - No asbestos found at the reporting limit 0.1g/kg, by polarised light microscopy including dispersion staining.
- 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.
- EN33: Where leachable PFAS analysis is requested, centrifugation rather than pressure filtration is used as the default approach for removal of particulates, in line with AS 4439.3.



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN0912	BN0914	BN0915	BN0916	BN0917
Sampling date / time				15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06
Compound	CAS Number	LOR	Unit	EB2314575-001	EB2314575-002	EB2314575-003	EB2314575-004	EB2314575-005
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	-----	1.0	%	9.7	11.7	11.1	11.2	13.0
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	9	8	6	9	16
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	16	13	12	16	24
Copper	7440-50-8	5	mg/kg	48	40	57	42	42
Lead	7439-92-1	5	mg/kg	30	24	27	23	26
Nickel	7440-02-0	2	mg/kg	12	11	9	12	11
Zinc	7440-66-6	5	mg/kg	175	259	165	168	217
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)								
Initial pH	-----	0.1	pH Unit	6.3	6.5	6.7	6.7	6.4
After HCl pH	-----	0.1	pH Unit	1.5	1.4	1.4	1.4	1.3
Extraction Fluid Number	-----	1	-	1	1	1	1	1
Final pH	-----	0.1	pH Unit	5.1	5.1	5.1	5.1	5.1
EN33: TCLP Leach - Inorganics/PFAS (Plastic Vessel)								
Initial pH	-----	0.1	pH Unit	6.1	6.2	-----	7.2	-----
After HCl pH	-----	0.1	pH Unit	1.4	1.3	-----	1.4	-----
Extraction Fluid Number	-----	1	-	1	1	-----	1	-----
Final pH	-----	0.1	pH Unit	5.1	5.1	-----	5.1	-----
EN33Z: ZHE TCLP Leach								
Extraction Fluid Number	-----	0.1	pH Unit	4.9	4.9	4.9	4.9	4.9
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	-----	10	mg/kg	<10	<10	<10	<10	<10
C10 - C14 Fraction	-----	50	mg/kg	50	550	450	660	600
C15 - C28 Fraction	-----	100	mg/kg	730	7490	6140	7920	7000
C29 - C36 Fraction	-----	100	mg/kg	260	2930	2400	3120	2770
^ C10 - C36 Fraction (sum)	-----	50	mg/kg	1040	11000	8990	11700	10400
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	<10	<10
>C10 - C16 Fraction	-----	50	mg/kg	110	1140	930	1310	1210
>C16 - C34 Fraction	-----	100	mg/kg	860	9420	7720	9880	8700
>C34 - C40 Fraction	-----	100	mg/kg	120	1490	1240	1650	1490



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0912	BN0914	BN0915	BN0916	BN0917
Sampling date / time					15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06
Compound	CAS Number	LOR	Unit		EB2314575-001	EB2314575-002	EB2314575-003	EB2314575-004	EB2314575-005
					Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		1090	12000	9890	12800	11400
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		110	1140	930	1310	1210
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	<1	<1
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		<0.0002	<0.0002	----	<0.0002	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg		<0.0002	<0.0002	----	<0.0002	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		0.0005	0.0004	----	0.0005	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg		<0.0002	<0.0002	----	<0.0002	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		0.0103	0.0093	----	0.0109	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg		<0.0002	<0.0002	----	<0.0002	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		0.004	0.007	----	0.007	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg		0.0090	0.0147	----	0.0154	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg		0.0049	0.0062	----	0.0068	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg		0.0045	0.0047	----	0.0054	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg		0.0030	0.0026	----	0.0030	----
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg		0.0020	0.0019	----	0.0021	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg		0.0009	0.0009	----	0.0011	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg		0.0007	0.0006	----	0.0008	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN0912	BN0914	BN0915	BN0916	BN0917
Sampling date / time				15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06
Compound	CAS Number	LOR	Unit	EB2314575-001	EB2314575-002	EB2314575-003	EB2314575-004	EB2314575-005
				Result	Result	Result	Result	Result
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	0.0002	0.0002	----	0.0002	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	0.0003	0.0002	----	0.0003	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	----	<0.0005	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	----	<0.0002	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	<0.0005	----	<0.0005	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	<0.0005	----	<0.0005	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	<0.0005	----	<0.0005	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	<0.0005	----	<0.0005	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	<0.0002	----	<0.0002	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	<0.0002	----	<0.0002	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	----	<0.0005	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	----	<0.0005	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	0.0006	0.0006	----	<0.0005	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	----	<0.0005	----
EP231_TOP_P: PFAS Sums								
Sum of PFAS	----	0.0002	mg/kg	0.0409	0.0493	----	0.0535	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	0.0108	0.0097	----	0.0114	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0912	BN0914	BN0915	BN0916	BN0917
Sampling date / time					15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06
Compound	CAS Number	LOR	Unit		EB2314575-001	EB2314575-002	EB2314575-003	EB2314575-004	EB2314575-005
					Result	Result	Result	Result	Result
EP231_TOP_P: PFAS Sums - Continued									
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.0002	mg/kg		0.0403	0.0487	----	0.0535	----
Sum of TOP C4 - C14 as Fluorine	----	0.0002	mg/kg		0.0265	0.0319	----	0.0351	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		<0.0002	<0.0002	----	<0.0002	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg		<0.0002	<0.0002	----	<0.0002	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		0.0003	<0.0004	----	<0.0005	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg		<0.0002	<0.0002	----	<0.0002	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		0.0104	0.0074	----	0.0066	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg		<0.0002	<0.0002	----	<0.0002	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		<0.001	<0.001	----	<0.001	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg		0.0002	0.0005	----	0.0007	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg		0.0003	0.0004	----	0.0004	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg		<0.0002	<0.0002	----	0.0002	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg		0.0004	0.0005	----	0.0005	----
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg		0.0003	0.0003	----	0.0003	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg		<0.0002	<0.0002	----	<0.0002	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg		0.0003	0.0003	----	0.0003	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg		<0.0002	<0.0002	----	<0.0002	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg		<0.0002	<0.0002	----	<0.0002	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg		<0.0005	<0.0005	----	<0.0005	----
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg		<0.0002	<0.0002	----	<0.0002	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0912	BN0914	BN0915	BN0916	BN0917
Sampling date / time					15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06
Compound	CAS Number	LOR	Unit		EB2314575-001	EB2314575-002	EB2314575-003	EB2314575-004	EB2314575-005
					Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg		<0.0005	<0.0005	----	<0.0005	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg		<0.0005	<0.0005	----	<0.0005	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg		<0.0005	<0.0005	----	<0.0005	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg		<0.0005	<0.0005	----	<0.0005	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg		<0.0002	<0.0002	----	<0.0002	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg		<0.0002	<0.0002	----	<0.0002	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg		<0.0005	<0.0005	----	<0.0005	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg		0.0020	0.0031	----	0.0026	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		0.0021	0.0025	----	0.0024	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		0.0007	0.0007	----	0.0007	----
EP231P: PFAS Sums									
Sum of PFAS	----	0.0002	mg/kg		0.0170	0.0157	----	0.0147	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		0.0107	0.0074	----	0.0066	----
Sum of PFAS (WA DER List)	----	0.0002	mg/kg		0.0157	0.0144	----	0.0134	----
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%		100.0	95.7	97.8	89.7	91.9
Toluene-D8	2037-26-5	0.2	%		95.6	93.2	107	96.3	97.8
4-Bromofluorobenzene	460-00-4	0.2	%		113	111	108	107	99.1
EP231_TOP_S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		102	102	----	101	----
13C8-PFOA	----	0.0002	%		103	106	----	99.2	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0912	BN0914	BN0915	BN0916	BN0917
Sampling date / time					15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06
Compound	CAS Number	LOR	Unit		EB2314575-001	EB2314575-002	EB2314575-003	EB2314575-004	EB2314575-005
					Result	Result	Result	Result	Result
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		115	128	----	112	----
13C8-PFOA	----	0.0002	%		100	127	----	114	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN0920	BN0921	BN0922	BN0923	BN0924
Sampling date / time				15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06
Compound	CAS Number	LOR	Unit	EB2314575-006	EB2314575-007	EB2314575-008	EB2314575-009	EB2314575-010
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	13.8	14.2	11.8	12.5	14.8
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	No	----	No	----	No
Asbestos (Trace)	1332-21-4	5	Fibres	No	----	No	----	No
Asbestos Type	1332-21-4	-	--	-	----	-	----	-
Sample weight (dry)	----	0.01	g	48.7	----	46.8	----	43.0
APPROVED IDENTIFIER:	----	-	--	M. TRAN	----	M. TRAN	----	M. TRAN
Synthetic Mineral Fibre	----	-	--	Yes	----	No	----	No
Organic Fibre	----	-	--	Yes	----	Yes	----	Yes
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	32	23	9	10	18
Cadmium	7440-43-9	1	mg/kg	<1	5	<1	<1	2
Chromium	7440-47-3	2	mg/kg	533	28	17	20	24
Copper	7440-50-8	5	mg/kg	44	44	50	53	58
Lead	7439-92-1	5	mg/kg	21	26	36	23	27
Nickel	7440-02-0	2	mg/kg	232	10	10	10	12
Zinc	7440-66-6	5	mg/kg	187	283	254	215	495
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)								
Initial pH	----	0.1	pH Unit	7.1	7.8	7.5	7.2	7.2
After HCl pH	----	0.1	pH Unit	1.2	1.3	1.2	1.3	1.3
Extraction Fluid Number	----	1	-	1	1	1	1	1
Final pH	----	0.1	pH Unit	5.1	5.9	5.1	5.1	5.2
EN33: TCLP Leach - Inorganics/PFAS (Plastic Vessel)								
Initial pH	----	0.1	pH Unit	----	7.9	----	7.6	----
After HCl pH	----	0.1	pH Unit	----	1.4	----	1.4	----
Extraction Fluid Number	----	1	-	----	1	----	1	----
Final pH	----	0.1	pH Unit	----	5.2	----	5.2	----
EN33Z: ZHE TCLP Leach								
Extraction Fluid Number	----	0.1	pH Unit	4.9	4.9	4.9	4.9	4.9
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	16	<10	48	70
C10 - C14 Fraction	----	50	mg/kg	840	960	700	1440	980
C15 - C28 Fraction	----	100	mg/kg	7560	8410	7750	12600	8270
C29 - C36 Fraction	----	100	mg/kg	2850	3220	2990	5440	3420



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN0920	BN0921	BN0922	BN0923	BN0924
Sampling date / time				15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06
Compound	CAS Number	LOR	Unit	EB2314575-006	EB2314575-007	EB2314575-008	EB2314575-009	EB2314575-010
				Result	Result	Result	Result	Result
EP080/071: Total Petroleum Hydrocarbons - Continued								
^ C10 - C36 Fraction (sum)	----	50	mg/kg	11200	12600	11400	19500	12700
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	16	50	<10	78	98
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	16	48	<10	62	65
>C10 - C16 Fraction	----	50	mg/kg	1430	1610	1300	2360	1570
>C16 - C34 Fraction	----	100	mg/kg	9330	10400	9660	16200	10500
>C34 - C40 Fraction	----	100	mg/kg	1570	1760	1620	2840	1830
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	12300	13800	12600	21400	13900
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	1430	1610	1300	2360	1570
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	0.9	<0.5	3.0	8.8
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	1.7	2.6
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	1.2	<0.5	8.0	15.0
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	3.6	6.3
^ Sum of BTEX	----	0.2	mg/kg	<0.2	2.1	<0.2	16.3	32.7
^ Total Xylenes	----	0.5	mg/kg	<0.5	1.2	<0.5	11.6	21.3
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	1	<1
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	----	<0.0002	----	<0.0002	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	----	<0.0002	----	<0.0002	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	----	0.0004	----	0.0008	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	----	<0.0002	----	<0.0002	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	----	0.0104	----	0.0130	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	----	<0.0002	----	<0.0002	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	----	0.012	----	0.007	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN0920	BN0921	BN0922	BN0923	BN0924
Sampling date / time				15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06
Compound	CAS Number	LOR	Unit	EB2314575-006	EB2314575-007	EB2314575-008	EB2314575-009	EB2314575-010
				Result	Result	Result	Result	Result
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	----	0.0233	----	0.0140	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	----	0.0094	----	0.0066	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	----	0.0061	----	0.0052	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	----	0.0030	----	0.0030	----
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	----	0.0019	----	0.0025	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	----	0.0011	----	0.0010	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	----	0.0006	----	0.0008	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	----	<0.0002	----	<0.0002	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	----	0.0002	----	0.0003	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	----	<0.0005	----	<0.0005	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	----	<0.0002	----	<0.0002	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	----	<0.0005	----	<0.0005	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	----	<0.0005	----	<0.0005	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	----	<0.0005	----	<0.0005	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	----	<0.0005	----	<0.0005	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	----	<0.0002	----	<0.0002	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	----	<0.0002	----	<0.0002	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	----	<0.0005	----	<0.0005	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	----	0.0006	----	<0.0005	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0920	BN0921	BN0922	BN0923	BN0924
Sampling date / time					15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06
Compound	CAS Number	LOR	Unit		EB2314575-006	EB2314575-007	EB2314575-008	EB2314575-009	EB2314575-010
					Result	Result	Result	Result	Result
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids - Continued									
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		----	0.0006	----	<0.0005	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		----	<0.0005	----	<0.0005	----
EP231_TOP_P: PFAS Sums									
Sum of PFAS	----	0.0002	mg/kg		----	0.0696	----	0.0542	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		----	0.0108	----	0.0138	----
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.0002	mg/kg		----	0.0684	----	0.0542	----
Sum of TOP C4 - C14 as Fluorine	----	0.0002	mg/kg		----	0.0446	----	0.0355	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		----	<0.0002	----	<0.0002	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg		----	<0.0002	----	<0.0002	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		----	<0.0004	----	0.0014	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg		----	<0.0003	----	<0.0003	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		----	0.0114	----	0.0189	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg		----	<0.0002	----	<0.0002	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		----	<0.001	----	<0.001	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg		----	0.0004	----	0.0004	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg		----	0.0006	----	0.0008	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg		----	0.0003	----	0.0004	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg		----	0.0007	----	0.0008	----
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg		----	0.0005	----	0.0020	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg		----	<0.0002	----	<0.0002	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg		----	0.0006	----	0.0010	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN0920	BN0921	BN0922	BN0923	BN0924
Sampling date / time				15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06
Compound	CAS Number	LOR	Unit	EB2314575-006	EB2314575-007	EB2314575-008	EB2314575-009	EB2314575-010
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	----	<0.0002	----	<0.0002	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	----	0.0002	----	0.0004	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	----	<0.0005	----	<0.0005	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	----	<0.0002	----	<0.0002	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	----	<0.0005	----	<0.0005	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	----	<0.0005	----	<0.0005	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	----	<0.0005	----	<0.0005	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	----	<0.0005	----	<0.0005	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	----	<0.0002	----	<0.0002	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	----	<0.0002	----	<0.0002	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	----	<0.0005	----	<0.0005	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	----	0.0055	----	0.0034	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	----	0.0046	----	0.0032	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	----	0.0013	----	0.0009	----
EP231P: PFAS Sums								
Sum of PFAS	----	0.0002	mg/kg	----	0.0261	----	0.0336	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	----	0.0114	----	0.0203	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN0920	BN0921	BN0922	BN0923	BN0924
Sampling date / time				15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06
Compound	CAS Number	LOR	Unit	EB2314575-006	EB2314575-007	EB2314575-008	EB2314575-009	EB2314575-010
				Result	Result	Result	Result	Result
EP231P: PFAS Sums - Continued								
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	----	0.0235	----	0.0293	----
EP080S: TPH(V)/BTEX Surrogates								
1,2-Dichloroethane-D4	17060-07-0	0.2	%	80.4	81.2	100	82.8	79.6
Toluene-D8	2037-26-5	0.2	%	89.8	91.7	106	95.7	96.9
4-Bromofluorobenzene	460-00-4	0.2	%	92.1	109	109	106	91.8
EP231_TOP_S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	----	104	----	90.3	----
13C8-PFOA	----	0.0002	%	----	106	----	102	----
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	----	123	----	118	----
13C8-PFOA	----	0.0002	%	----	120	----	127	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0925	BN0926	BN0927	BN0928	----
Sampling date / time					15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	----
Compound	CAS Number	LOR	Unit		EB2314575-011	EB2314575-012	EB2314575-013	EB2314575-014	-----
					Result	Result	Result	Result	----
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%		10.8	11.2	11.3	12.6	----
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		12	12	9	8	----
Cadmium	7440-43-9	1	mg/kg		<1	<1	<1	2	----
Chromium	7440-47-3	2	mg/kg		18	18	16	18	----
Copper	7440-50-8	5	mg/kg		122	65	57	54	----
Lead	7439-92-1	5	mg/kg		48	34	31	72	----
Nickel	7440-02-0	2	mg/kg		17	16	13	13	----
Zinc	7440-66-6	5	mg/kg		320	330	328	606	----
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)									
Initial pH	----	0.1	pH Unit		6.8	6.9	7.0	7.0	----
After HCl pH	----	0.1	pH Unit		1.3	1.2	1.3	1.3	----
Extraction Fluid Number	----	1	-		1	1	1	1	----
Final pH	----	0.1	pH Unit		5.1	5.2	5.2	5.2	----
EN33: TCLP Leach - Inorganics/PFAS (Plastic Vessel)									
Initial pH	----	0.1	pH Unit		6.8	6.9	----	6.8	----
After HCl pH	----	0.1	pH Unit		1.3	1.3	----	1.4	----
Extraction Fluid Number	----	1	-		1	1	----	1	----
Final pH	----	0.1	pH Unit		5.1	5.1	----	5.1	----
EN33Z: ZHE TCLP Leach									
Extraction Fluid Number	----	0.1	pH Unit		4.9	4.9	4.9	4.9	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		14	20	10	13	----
C10 - C14 Fraction	----	50	mg/kg		1210	990	1020	1410	----
C15 - C28 Fraction	----	100	mg/kg		11300	9640	9710	13100	----
C29 - C36 Fraction	----	100	mg/kg		4520	4120	3660	5350	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg		17000	14800	14400	19900	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		22	32	17	20	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		17	24	14	16	----
>C10 - C16 Fraction	----	50	mg/kg		2120	1740	1930	2610	----
>C16 - C34 Fraction	----	100	mg/kg		14300	12400	12000	16600	----
>C34 - C40 Fraction	----	100	mg/kg		2220	2100	1870	2390	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0925	BN0926	BN0927	BN0928	----
Sampling date / time				15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	----
Compound	CAS Number	LOR	Unit	EB2314575-011	EB2314575-012	EB2314575-013	EB2314575-014	-----	
				Result	Result	Result	Result	----	
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	18600	16200	15800	21600	----	
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	2120	1740	1930	2610	----	
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	----	
Toluene	108-88-3	0.5	mg/kg	1.3	1.4	0.7	1.0	----	
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	0.5	<0.5	<0.5	----	
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	2.8	3.9	1.4	2.0	----	
ortho-Xylene	95-47-6	0.5	mg/kg	1.2	1.8	0.6	0.8	----	
^ Sum of BTEX	----	0.2	mg/kg	5.3	7.6	2.7	3.8	----	
^ Total Xylenes	----	0.5	mg/kg	4.0	5.7	2.0	2.8	----	
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	----	
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	----	<0.0002	----	
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.0002	----	<0.0002	----	
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	0.0008	0.0017	----	0.0004	----	
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.0003	----	<0.0002	----	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0142	0.0264	----	0.0106	----	
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	----	<0.0002	----	
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	0.005	0.007	----	0.008	----	
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	0.0102	0.0126	----	0.0186	----	
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0056	0.0075	----	0.0094	----	
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	0.0047	0.0057	----	0.0069	----	
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0030	0.0037	----	0.0035	----	
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	0.0024	0.0032	----	0.0027	----	
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	0.0011	0.0012	----	0.0013	----	
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	0.0010	0.0013	----	0.0008	----	



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0925	BN0926	BN0927	BN0928	----
Sampling date / time					15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	----
Compound	CAS Number	LOR	Unit		EB2314575-011	EB2314575-012	EB2314575-013	EB2314575-014	-----
					Result	Result	Result	Result	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids - Continued									
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg		0.0003	0.0003	----	0.0003	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg		0.0004	0.0005	----	0.0002	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg		<0.0005	<0.0005	----	<0.0005	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg		<0.0002	<0.0002	----	<0.0002	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg		<0.0005	<0.0005	----	<0.0005	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg		<0.0005	<0.0005	----	<0.0005	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg		<0.0005	<0.0005	----	<0.0005	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg		<0.0005	<0.0005	----	<0.0005	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg		<0.0002	<0.0002	----	<0.0002	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg		<0.0002	<0.0002	----	<0.0002	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg		<0.0005	<0.0005	----	<0.0005	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg		<0.0005	<0.0005	----	0.0011	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		<0.0005	<0.0005	----	0.0014	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		<0.0005	<0.0005	----	<0.0005	----
EP231_TOP_P: PFAS Sums									
Sum of PFAS	----	0.0002	mg/kg		0.0487	0.0716	----	0.0652	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		0.0150	0.0281	----	0.0110	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0925	BN0926	BN0927	BN0928	----
Sampling date / time					15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	----
Compound	CAS Number	LOR	Unit		EB2314575-011	EB2314575-012	EB2314575-013	EB2314575-014	-----
					Result	Result	Result	Result	----
EP231_TOP_P: PFAS Sums - Continued									
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.0002	mg/kg		0.0487	0.0716	----	0.0627	----
Sum of TOP C4 - C14 as Fluorine	----	0.0002	mg/kg		0.0320	0.0469	----	0.0412	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		<0.0002	<0.0002	----	<0.0002	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg		<0.0002	<0.0002	----	<0.0002	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		0.0008	0.0009	----	0.0005	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg		<0.0002	<0.0002	----	<0.0002	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		0.0130	0.0167	----	0.0108	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg		<0.0002	<0.0002	----	<0.0002	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		<0.001	<0.001	----	<0.001	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg		0.0006	0.0004	----	0.0004	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg		0.0006	0.0006	----	0.0005	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg		0.0004	0.0003	----	0.0003	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg		0.0009	0.0008	----	0.0007	----
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg		0.0009	0.0015	----	0.0006	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg		<0.0003	<0.0003	----	<0.0002	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg		0.0006	0.0009	----	0.0004	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg		<0.0002	<0.0002	----	<0.0002	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg		0.0003	0.0004	----	0.0002	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg		<0.0005	<0.0005	----	<0.0005	----
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg		<0.0002	<0.0002	----	<0.0002	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0925	BN0926	BN0927	BN0928	----
Sampling date / time					15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	----
Compound	CAS Number	LOR	Unit		EB2314575-011	EB2314575-012	EB2314575-013	EB2314575-014	-----
					Result	Result	Result	Result	----
EP231C: Perfluoroalkyl Sulfonamides - Continued									
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg		<0.0005	<0.0005	----	<0.0005	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg		<0.0005	<0.0005	----	<0.0005	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg		<0.0005	<0.0005	----	<0.0005	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg		<0.0005	<0.0005	----	<0.0005	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg		<0.0002	<0.0002	----	<0.0002	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg		<0.0002	<0.0002	----	<0.0002	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg		<0.0005	<0.0005	----	<0.0005	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg		0.0036	0.0037	----	0.0045	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		0.0047	0.0040	----	0.0048	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		0.0012	0.0009	----	0.0013	----
EP231P: PFAS Sums									
Sum of PFAS	----	0.0002	mg/kg		0.0276	0.0311	----	0.0250	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		0.0138	0.0176	----	0.0113	----
Sum of PFAS (WA DER List)	----	0.0002	mg/kg		0.0246	0.0274	----	0.0225	----
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%		79.7	82.6	80.8	78.4	----
Toluene-D8	2037-26-5	0.2	%		90.6	96.7	93.4	98.0	----
4-Bromofluorobenzene	460-00-4	0.2	%		93.9	97.6	109	113	----
EP231_TOP_S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		103	92.4	----	92.4	----
13C8-PFOA	----	0.0002	%		104	99.2	----	92.4	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN0925	BN0926	BN0927	BN0928	----
Sampling date / time					15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	----
Compound	CAS Number	LOR	Unit		EB2314575-011	EB2314575-012	EB2314575-013	EB2314575-014	-----
					Result	Result	Result	Result	----
EP231S: PFAS Surrogate									
13C4-PFOS	-----	0.0002	%		111	112	----	94.0	----
13C8-PFOA	-----	0.0002	%		108	106	----	92.0	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0912	BN0914	BN0915	BN0916	BN0917
Sampling date / time				15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06
Compound	CAS Number	LOR	Unit	EB2314575-001	EB2314575-002	EB2314575-003	EB2314575-004	EB2314575-005
				Result	Result	Result	Result	Result
EG005(ED093)C: Leachable Metals by ICPAES								
Arsenic	7440-38-2	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium	7440-43-9	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Chromium	7440-47-3	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Copper	7440-50-8	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	7440-02-0	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc	7440-66-6	0.1	mg/L	1.7	1.6	1.6	1.8	2.1
EP080/071: Total Petroleum Hydrocarbons								
C10 - C14 Fraction	----	50	µg/L	700	1140	940	2650	3050
C15 - C28 Fraction	----	100	µg/L	1060	1090	1060	3400	3930
C29 - C36 Fraction	----	50	µg/L	150	170	180	200	230
^ C10 - C36 Fraction (sum)	----	50	µg/L	1910	2400	2180	6250	7210
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	100	µg/L	970	1390	1200	4470	5120
>C16 - C34 Fraction	----	100	µg/L	860	910	890	1040	1420
>C34 - C40 Fraction	----	100	µg/L	240	260	270	320	340
^ >C10 - C40 Fraction (sum)	----	100	µg/L	2070	2560	2360	5830	6880
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	970	1390	1200	4470	5120
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.10	<0.10	----	<0.10	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.10	<0.10	----	<0.10	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.10	<0.10	----	<0.10	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.10	<0.10	----	<0.10	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.13	<0.10	----	<0.10	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.10	<0.10	----	<0.10	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.5	<0.5	----	<0.5	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	0.14	0.18	----	0.22	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0912	BN0914	BN0915	BN0916	BN0917
Sampling date / time				15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06
Compound	CAS Number	LOR	Unit	EB2314575-001	EB2314575-002	EB2314575-003	EB2314575-004	EB2314575-005
				Result	Result	Result	Result	Result
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.10	<0.10	----	0.11	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.10	<0.10	----	<0.10	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.10	<0.10	----	<0.10	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.10	<0.10	----	<0.10	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.10	<0.10	----	<0.10	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.10	<0.10	----	<0.10	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.10	<0.10	----	<0.10	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.10	<0.10	----	<0.10	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.25	<0.25	----	<0.25	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.10	<0.10	----	<0.10	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.25	<0.25	----	<0.25	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.25	<0.25	----	<0.25	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.25	<0.25	----	<0.25	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.25	<0.25	----	<0.25	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.10	<0.10	----	<0.10	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.10	<0.10	----	<0.10	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.10	<0.10	----	<0.10	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.10	<0.10	----	<0.10	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0912	BN0914	BN0915	BN0916	BN0917
Sampling date / time				15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06
Compound	CAS Number	LOR	Unit	EB2314575-001	EB2314575-002	EB2314575-003	EB2314575-004	EB2314575-005
				Result	Result	Result	Result	Result
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids - Continued								
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.10	<0.10	----	<0.10	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.10	<0.10	----	<0.10	----
EP231_TOP_P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	0.27	0.18	----	0.33	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	0.13	<0.10	----	<0.10	----
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.01	µg/L	0.27	0.18	----	0.33	----
^ Sum of TOP C4 - C14 as Fluorine	----	0.01	µg/L	0.17	0.12	----	0.22	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	----	<0.02	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	----	<0.02	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.01	----	<0.01	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	----	<0.02	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.16	0.14	----	0.18	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	----	<0.02	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	----	<0.1	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.04	<0.04	----	<0.04	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	0.03	<0.02	----	0.02	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	----	<0.02	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	0.02	0.02	----	0.02	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	----	<0.02	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	----	<0.02	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	----	<0.02	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0912	BN0914	BN0915	BN0916	BN0917
Sampling date / time				15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06
Compound	CAS Number	LOR	Unit	EB2314575-001	EB2314575-002	EB2314575-003	EB2314575-004	EB2314575-005
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	----	<0.02	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	----	<0.02	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	----	<0.05	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	----	<0.02	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	----	<0.05	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	----	<0.05	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	----	<0.05	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	----	<0.05	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	----	<0.02	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	----	<0.02	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	----	<0.05	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	0.18	0.16	----	0.21	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	0.10	0.09	----	0.10	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	----	<0.05	----
EP231P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	0.49	0.42	----	0.53	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	0.16	0.15	----	0.18	----



Analytical Results

Sub-Matrix: TCLP LEACHATE (Matrix: WATER)				Sample ID	BN0912	BN0914	BN0915	BN0916	BN0917
Sampling date / time					15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06
Compound	CAS Number	LOR	Unit	EB2314575-001	EB2314575-002	EB2314575-003	EB2314575-004	EB2314575-005	
Result				Result	Result	Result	Result	Result	Result
EP231P: PFAS Sums - Continued									
Sum of PFAS (WA DER List)	----	0.01	µg/L	0.49	0.42	----	0.53	----	
EP231_TOP_S: PFAS Surrogate									
13C4-PFOS	----	0.02	%	98.5	93.0	----	92.0	----	
13C8-PFOA	----	0.02	%	104	104	----	110	----	
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%	81.3	90.7	----	92.8	----	
13C8-PFOA	----	0.02	%	103	101	----	101	----	



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0920	BN0921	BN0922	BN0923	BN0924
Sampling date / time				15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06
Compound	CAS Number	LOR	Unit	EB2314575-006	EB2314575-007	EB2314575-008	EB2314575-009	EB2314575-010
				Result	Result	Result	Result	Result
EG005(ED093)C: Leachable Metals by ICPAES								
Arsenic	7440-38-2	0.1	mg/L	<0.1	0.1	<0.1	<0.1	<0.1
Cadmium	7440-43-9	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Chromium	7440-47-3	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Copper	7440-50-8	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	7440-02-0	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc	7440-66-6	0.1	mg/L	2.9	5.0	3.0	3.2	52.4
EP080/071: Total Petroleum Hydrocarbons								
C10 - C14 Fraction	----	50	µg/L	6640	9580	3920	3650	3850
C15 - C28 Fraction	----	100	µg/L	8280	10400	4980	4560	3970
C29 - C36 Fraction	----	50	µg/L	280	380	260	230	200
^ C10 - C36 Fraction (sum)	----	50	µg/L	15200	20400	9160	8440	8020
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	100	µg/L	10200	13000	4970	4530	4740
>C16 - C34 Fraction	----	100	µg/L	4130	6500	3980	3680	3070
>C34 - C40 Fraction	----	100	µg/L	350	380	320	280	280
^ >C10 - C40 Fraction (sum)	----	100	µg/L	14700	19900	9270	8490	8090
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	10200	13000	4970	4520	4740
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	----	<0.10	----	0.13	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	----	<0.10	----	<0.10	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	----	<0.10	----	<0.10	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	----	<0.10	----	<0.10	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	----	0.21	----	0.29	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	----	<0.10	----	<0.10	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	----	<0.5	----	<0.5	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	----	0.75	----	0.26	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0920	BN0921	BN0922	BN0923	BN0924
Sampling date / time				15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06
Compound	CAS Number	LOR	Unit	EB2314575-006	EB2314575-007	EB2314575-008	EB2314575-009	EB2314575-010
				Result	Result	Result	Result	Result
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	----	0.27	----	0.15	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	----	0.11	----	<0.10	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	----	<0.10	----	<0.10	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	----	<0.10	----	<0.10	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	----	<0.10	----	<0.10	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	----	<0.10	----	<0.10	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	----	<0.10	----	<0.10	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	----	<0.10	----	<0.10	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	----	<0.25	----	<0.25	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	----	<0.10	----	<0.10	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	----	<0.25	----	<0.25	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	----	<0.25	----	<0.25	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	----	<0.25	----	<0.25	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	----	<0.25	----	<0.25	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	----	<0.10	----	<0.10	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	----	<0.10	----	<0.10	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	----	<0.10	----	<0.10	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	----	<0.10	----	<0.10	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0920	BN0921	BN0922	BN0923	BN0924
Sampling date / time				15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06
Compound	CAS Number	LOR	Unit	EB2314575-006	EB2314575-007	EB2314575-008	EB2314575-009	EB2314575-010
				Result	Result	Result	Result	Result
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids - Continued								
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	----	<0.10	----	<0.10	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	----	<0.10	----	<0.10	----
EP231_TOP_P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	----	1.34	----	0.83	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	----	0.21	----	0.29	----
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.01	µg/L	----	1.34	----	0.83	----
^ Sum of TOP C4 - C14 as Fluorine	----	0.01	µg/L	----	0.88	----	0.53	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	----	<0.02	----	<0.02	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	----	<0.02	----	<0.02	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	----	<0.02	----	0.06	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	----	<0.02	----	<0.02	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	----	0.33	----	0.45	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	----	<0.02	----	<0.02	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	----	<0.1	----	<0.1	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	----	<0.04	----	<0.04	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	----	0.05	----	0.06	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	----	<0.02	----	0.02	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	----	0.02	----	0.03	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	----	<0.02	----	0.06	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	----	<0.02	----	<0.02	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	----	<0.02	----	<0.02	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0920	BN0921	BN0922	BN0923	BN0924
Sampling date / time				15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06
Compound	CAS Number	LOR	Unit	EB2314575-006	EB2314575-007	EB2314575-008	EB2314575-009	EB2314575-010
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	----	<0.02	----	<0.02	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	----	<0.02	----	<0.02	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	----	<0.05	----	<0.05	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	----	<0.02	----	<0.02	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	----	<0.05	----	<0.05	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	----	<0.05	----	<0.05	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	----	<0.05	----	<0.05	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	----	<0.05	----	<0.05	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	----	<0.02	----	<0.02	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	----	<0.02	----	<0.02	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	----	<0.05	----	<0.05	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	----	0.34	----	0.20	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	----	0.21	----	0.11	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	----	<0.05	----	<0.05	----
EP231P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	----	0.95	----	0.99	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	----	0.33	----	0.51	----



Analytical Results

Sub-Matrix: TCLP LEACHATE (Matrix: WATER)				Sample ID	BN0920	BN0921	BN0922	BN0923	BN0924
Sampling date / time					15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06
Compound	CAS Number	LOR	Unit		EB2314575-006	EB2314575-007	EB2314575-008	EB2314575-009	EB2314575-010
					Result	Result	Result	Result	Result
EP231P: PFAS Sums - Continued									
Sum of PFAS (WA DER List)	----	0.01	µg/L		----	0.95	----	0.93	----
EP231_TOP_S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		----	98.0	----	95.5	----
13C8-PFOA	----	0.02	%		----	99.5	----	91.0	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		----	92.0	----	85.3	----
13C8-PFOA	----	0.02	%		----	96.2	----	101	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0925	BN0926	BN0927	BN0928	----
Sampling date / time				15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	----
Compound	CAS Number	LOR	Unit	EB2314575-011	EB2314575-012	EB2314575-013	EB2314575-014	-----
				Result	Result	Result	Result	----
EG005(ED093)C: Leachable Metals by ICPAES								
Arsenic	7440-38-2	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	----
Cadmium	7440-43-9	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	----
Chromium	7440-47-3	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	----
Copper	7440-50-8	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	----
Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	----
Nickel	7440-02-0	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	----
Zinc	7440-66-6	0.1	mg/L	7.6	5.8	5.6	20.4	----
EP080/071: Total Petroleum Hydrocarbons								
C10 - C14 Fraction	----	50	µg/L	1800	1710	2250	2940	----
C15 - C28 Fraction	----	100	µg/L	2390	2260	2210	2070	----
C29 - C36 Fraction	----	50	µg/L	170	160	150	150	----
^ C10 - C36 Fraction (sum)	----	50	µg/L	4360	4130	4610	5160	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	100	µg/L	2350	2220	2840	3510	----
>C16 - C34 Fraction	----	100	µg/L	1930	1830	1700	1570	----
>C34 - C40 Fraction	----	100	µg/L	250	240	230	230	----
^ >C10 - C40 Fraction (sum)	----	100	µg/L	4530	4290	4770	5310	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	2350	2220	2840	3510	----
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	0.14	<0.10	----	<0.10	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.10	<0.10	----	<0.10	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.10	<0.10	----	<0.10	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.10	<0.10	----	<0.10	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.17	0.19	----	<0.10	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.10	<0.10	----	<0.10	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.5	<0.5	----	<0.5	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	0.14	0.18	----	0.19	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0925	BN0926	BN0927	BN0928	----
Sampling date / time				15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	----
Compound	CAS Number	LOR	Unit	EB2314575-011	EB2314575-012	EB2314575-013	EB2314575-014	-----
				Result	Result	Result	Result	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	0.10	0.10	----	0.12	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.10	<0.10	----	<0.10	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.10	<0.10	----	<0.10	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.10	<0.10	----	<0.10	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.10	<0.10	----	<0.10	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.10	<0.10	----	<0.10	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.10	<0.10	----	<0.10	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.10	<0.10	----	<0.10	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.25	<0.25	----	<0.25	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.10	<0.10	----	<0.10	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.25	<0.25	----	<0.25	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.25	<0.25	----	<0.25	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.25	<0.25	----	<0.25	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.25	<0.25	----	<0.25	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.10	<0.10	----	<0.10	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.10	<0.10	----	<0.10	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.10	<0.10	----	<0.10	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.10	<0.10	----	<0.10	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0925	BN0926	BN0927	BN0928	----
Sampling date / time				15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	----
Compound	CAS Number	LOR	Unit	EB2314575-011	EB2314575-012	EB2314575-013	EB2314575-014	-----
				Result	Result	Result	Result	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids - Continued								
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.10	<0.10	----	<0.10	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.10	<0.10	----	<0.10	----
EP231_TOP_P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	0.55	0.47	----	0.31	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	0.17	0.19	----	<0.10	----
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.01	µg/L	0.55	0.47	----	0.31	----
^ Sum of TOP C4 - C14 as Fluorine	----	0.01	µg/L	0.35	0.30	----	0.20	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	----	<0.02	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	----	<0.02	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	0.03	0.02	----	<0.02	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	----	<0.02	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.24	0.30	----	0.20	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	----	<0.02	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	----	<0.1	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.04	<0.04	----	<0.04	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	0.04	0.04	----	0.03	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	----	<0.02	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	0.03	0.03	----	0.02	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	0.03	0.03	----	<0.02	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	----	<0.02	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	----	<0.02	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN0925	BN0926	BN0927	BN0928	----
Sampling date / time				15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	----
Compound	CAS Number	LOR	Unit	EB2314575-011	EB2314575-012	EB2314575-013	EB2314575-014	-----
				Result	Result	Result	Result	----
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	----	<0.02	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	----	<0.02	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	----	<0.05	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	----	<0.02	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	----	<0.05	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	----	<0.05	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	----	<0.05	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	----	<0.05	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	----	<0.02	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	----	<0.02	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	----	<0.05	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	0.20	0.18	----	0.19	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	0.08	0.08	----	0.08	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	----	<0.05	----
EP231P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	0.65	0.68	----	0.52	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	0.27	0.32	----	0.20	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

				Sample ID	BN0925	BN0926	BN0927	BN0928	----
Sampling date / time					15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	----
Compound	CAS Number	LOR	Unit		EB2314575-011	EB2314575-012	EB2314575-013	EB2314575-014	-----
					Result	Result	Result	Result	----
EP231P: PFAS Sums - Continued									
Sum of PFAS (WA DER List)	----	0.01	µg/L		0.62	0.65	----	0.52	----
EP231_TOP_S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		89.5	97.0	----	91.5	----
13C8-PFOA	----	0.02	%		95.0	94.5	----	99.0	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		81.7	88.1	----	90.7	----
13C8-PFOA	----	0.02	%		100	101	----	102	----



Analytical Results

Sub-Matrix: ZHE LEACHATE
 (Matrix: WATER)

Sample ID

				BN0912	BN0914	BN0915	BN0916	BN0917
Sampling date / time				15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06
Compound	CAS Number	LOR	Unit	EB2314575-001	EB2314575-002	EB2314575-003	EB2314575-004	EB2314575-005
				Result	Result	Result	Result	Result
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	µg/L	<20	<20	<20	30	<20
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	<20	70	50
[^] C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	<20	<20	<20	70	50
EP080: BTEXN								
Benzene	71-43-2	1	µg/L	<1	<1	<1	<1	<1
Toluene	108-88-3	2	µg/L	<2	<2	<2	<2	<2
Ethylbenzene	100-41-4	2	µg/L	<2	<2	<2	<2	<2
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	<2	<2	<2
ortho-Xylene	95-47-6	2	µg/L	<2	<2	<2	<2	<2
[^] Total Xylenes	----	2	µg/L	<2	<2	<2	<2	<2
[^] Sum of BTEX	----	1	µg/L	<1	<1	<1	<1	<1
Naphthalene	91-20-3	5	µg/L	<5	<5	<5	<5	<5
EP080S: TPH(V)/BTEX Surrogates								
1,2-Dichloroethane-D4	17060-07-0	2	%	97.9	102	100	100	95.4
Toluene-D8	2037-26-5	2	%	94.2	99.3	97.8	98.7	94.4
4-Bromofluorobenzene	460-00-4	2	%	99.2	104	101	103	98.4



Analytical Results

Sub-Matrix: ZHE LEACHATE
 (Matrix: WATER)

Sample ID

				BN0920	BN0921	BN0922	BN0923	BN0924
Sampling date / time				15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06
Compound	CAS Number	LOR	Unit	EB2314575-006	EB2314575-007	EB2314575-008	EB2314575-009	EB2314575-010
				Result	Result	Result	Result	Result
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	µg/L	50	40	30	300	760
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	20	µg/L	70	90	70	420	910
[^] C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	70	90	60	190	330
EP080: BTEXN								
Benzene	71-43-2	1	µg/L	<1	<1	<1	<1	4
Toluene	108-88-3	2	µg/L	<2	<2	<2	64	216
Ethylbenzene	100-41-4	2	µg/L	<2	<2	<2	21	40
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	2	6	92	217
ortho-Xylene	95-47-6	2	µg/L	<2	<2	4	49	104
[^] Total Xylenes	----	2	µg/L	<2	2	10	141	321
[^] Sum of BTEX	----	1	µg/L	<1	2	10	226	581
Naphthalene	91-20-3	5	µg/L	<5	<5	<5	10	<5
EP080S: TPH(V)/BTEX Surrogates								
1,2-Dichloroethane-D4	17060-07-0	2	%	98.2	100	94.0	92.6	94.0
Toluene-D8	2037-26-5	2	%	98.7	98.4	98.6	102	106
4-Bromofluorobenzene	460-00-4	2	%	101	100	111	102	101



Analytical Results

Sub-Matrix: ZHE LEACHATE
 (Matrix: WATER)

Sample ID

				BN0925	BN0926	BN0927	BN0928	----
Sampling date / time				15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	15-May-2023 14:06	----
Compound	CAS Number	LOR	Unit	EB2314575-011	EB2314575-012	EB2314575-013	EB2314575-014	-----
				Result	Result	Result	Result	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	µg/L	200	150	70	90	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	20	µg/L	250	180	80	110	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	100	70	40	60	----
EP080: BTEXN								
Benzene	71-43-2	1	µg/L	1	<1	<1	<1	----
Toluene	108-88-3	2	µg/L	32	34	12	16	----
Ethylbenzene	100-41-4	2	µg/L	7	7	3	4	----
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	69	47	15	22	----
ortho-Xylene	95-47-6	2	µg/L	38	24	8	11	----
^ Total Xylenes	----	2	µg/L	107	71	23	33	----
^ Sum of BTEX	----	1	µg/L	147	112	38	53	----
Naphthalene	91-20-3	5	µg/L	<5	<5	<5	<5	----
EP080S: TPH(V)/BTEX Surrogates								
1,2-Dichloroethane-D4	17060-07-0	2	%	97.2	92.4	97.6	93.4	----
Toluene-D8	2037-26-5	2	%	100	94.9	96.1	96.2	----
4-Bromofluorobenzene	460-00-4	2	%	106	97.6	100	97.6	----

Analytical Results

Descriptive Results

Sub-Matrix: SOIL

Method: Compound	Sample ID - Sampling date / time	Analytical Results
EA200: AS 4964 - 2004 Identification of Asbestos in Soils		
EA200: Description	BN0920 - 15-May-2023 14:06	Grey rocky soil with organic matter and synthetic mineral fibres.
EA200: Description	BN0922 - 15-May-2023 14:06	Grey rocky soil with organic matter.
EA200: Description	BN0924 - 15-May-2023 14:06	Grey rocky soil with organic matter.



Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	53	134
Toluene-D8	2037-26-5	60	131
4-Bromofluorobenzene	460-00-4	59	127
EP231_TOP_S: PFAS Surrogate			
13C4-PFOS	----	47	129
13C8-PFOA	----	56	128
EP231S: PFAS Surrogate			
13C4-PFOS	----	76	136
13C8-PFOA	----	78	131

Sub-Matrix: TCLP LEACHATE		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231_TOP_S: PFAS Surrogate			
13C4-PFOS	----	55	131
13C8-PFOA	----	66	128
EP231S: PFAS Surrogate			
13C4-PFOS	----	65	140
13C8-PFOA	----	71	133

Sub-Matrix: ZHE LEACHATE		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	66	138
Toluene-D8	2037-26-5	79	120
4-Bromofluorobenzene	460-00-4	74	118

Inter-Laboratory Testing

Analysis conducted by ALS Melbourne, NATA accreditation no. 825, site no. 13778 (Chemistry).

(SOIL) EA200: AS 4964 - 2004 Identification of Asbestos in Soils



CERTIFICATE OF ANALYSIS

Work Order : **EB2321032**
Client : **HI QUALITY**
Contact : **EMILY GIBSON**
Address :
Telephone : **07 30595009**
Project : **Treated Solid Waste**
Order number :
C-O-C number : **54611**
Sampler : **EMILY GIBSON**
Site : **Yatala WTS**
Quote number : **EN333 - ALS Compass Sites**
No. of samples received : **9**
No. of samples analysed : **9**

Page : 1 of 27
Laboratory : **Environmental Division Brisbane**
Contact : **Customer Services EB**
Address : **2 Byth Street Stafford QLD Australia 4053**
Telephone : **+61-7-3243 7222**
Date Samples Received : **11-Jul-2023 16:30**
Date Analysis Commenced : **12-Jul-2023**
Issue Date : **20-Jul-2023 18:14**



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
- Descriptive 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.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Beatriz Llarinas	Senior Chemist - Inorganics	Brisbane Inorganics, Stafford, QLD
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD
Matt Frost	Assistant Laboratory Manager	Brisbane Organics, Stafford, QLD
MINNIE TRAN	Approved Asbestos Identifier	Melbourne Asbestos, Springvale, VIC
Timothy Creagh	Senior Chemist - Organics	Brisbane Inorganics, Stafford, QLD
Timothy Creagh	Senior Chemist - Organics	Brisbane Organics, Stafford, QLD



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.

- EP071 – TRH Semivolatile Fraction: Sample 'BN1005' (EB2321032-001) shows poor duplicate results for >C16-C34 Fraction due to sample heterogeneity. Confirmed by visual inspection.
- EP231X - Per- and Polyfluoroalkyl Substances (PFAS): Samples received in 20ml or 125ml bottles have been tested in accordance with the QSM5.3 compliant, NATA accredited method. 60mL or 250mL bottles have been tested to the legacy QSM 5.1 aligned, NATA accredited method.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP066 – Polychlorinated Biphenyls (PCB): Sample "BN1016" (EB2321032-009) required dilution prior to analysis due to matrix interferences. LOR values have been adjusted accordingly. Surrogate recoveries were not determined.
- EG005T (Total Metals by ICP-AES): BN1006 (EB2321032-002) shows poor matrix spike recovery due to sample heterogeneity. This has been confirmed by visual inspection.
- EP231X - PFAS: Particular analytes were raised for particular samples due to matrix interferences.
- EA200 'Am' Amosite (brown asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)
- EA200 'Trace' - Asbestos fibres ("Free Fibres") detected by trace analysis per AS4964. The result can be interpreted that the sample contains detectable 'respirable' asbestos fibres
- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.
- EA200 Legend
- EA200 'Ch' Chrysotile (white asbestos)
- EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.
- EA200: For samples larger than 30g, the <2mm fraction may be sub-sampled prior to trace analysis as outlined in ISO23909:2008(E) Sect 6.3.2-2
- EA200: 'Yes' - Asbestos detected by polarised light microscopy including dispersion staining.
- EA200: 'No*' - No asbestos found, at the reporting limit of 0.1g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at concentrations estimated to be below 0.1g/kg.
- EA200: 'No' - No asbestos found at the reporting limit 0.1g/kg, by polarised light microscopy including dispersion staining.
- 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, PFTTrDA 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.
- EN33: Where leachable PFAS analysis is requested, centrifugation rather than pressure filtration is used as the default approach for removal of particulates, in line with AS 4439.3.



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN1005	BN1006	BN1009	BN1011	BN1012
Sampling date / time				10-Jul-2023 10:37	10-Jul-2023 10:37	10-Jul-2023 10:38	10-Jul-2023 10:46	10-Jul-2023 10:47
Compound	CAS Number	LOR	Unit	EB2321032-001	EB2321032-002	EB2321032-003	EB2321032-004	EB2321032-005
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	10.3	7.0	8.4	12.2	11.5
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	No	----	No	----	No
Asbestos (Trace)	1332-21-4	-	-	No	----	No	----	No
Asbestos Type	1332-21-4	-	--	-	----	-	----	-
Sample weight (dry)	----	0.01	g	58.8	----	52.9	----	71.0
APPROVED IDENTIFIER:	----	-	--	M. TRAN	----	M. TRAN	----	M. TRAN
Synthetic Mineral Fibre	----	-	--	No	----	No	----	No
Organic Fibre	----	-	--	Yes	----	Yes	----	Yes
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	9	7	10	9	21
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	16	16	13	11	33
Copper	7440-50-8	5	mg/kg	66	70	80	60	194
Lead	7439-92-1	5	mg/kg	72	53	66	38	125
Nickel	7440-02-0	2	mg/kg	15	15	14	12	32
Zinc	7440-66-6	5	mg/kg	424	308	244	222	914
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)								
Initial pH	----	0.1	pH Unit	6.3	5.9	6.7	6.8	5.2
After HCl pH	----	0.1	pH Unit	1.5	1.5	1.6	1.5	1.5
Extraction Fluid Number	----	1	-	1	1	1	1	1
Final pH	----	0.1	pH Unit	5.2	5.1	5.1	5.1	5.0
EN33: TCLP Leach - Inorganics/PFAS (Plastic Vessel)								
Initial pH	----	0.1	pH Unit	6.3	5.9	6.7	6.8	5.2
After HCl pH	----	0.1	pH Unit	1.5	1.5	1.6	1.5	1.5
Extraction Fluid Number	----	1	-	1	1	1	1	1
Final pH	----	0.1	pH Unit	5.2	5.1	5.1	5.1	5.0
EN33Z: ZHE TCLP Leach								
Extraction Fluid Number	----	0.1	pH Unit	4.9	4.9	4.9	4.9	4.9
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg	200	230	410	370	390
C15 - C28 Fraction	----	100	mg/kg	3480	3990	8120	7120	8750
C29 - C36 Fraction	----	100	mg/kg	1590	1820	4010	3510	4240



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN1005	BN1006	BN1009	BN1011	BN1012
Sampling date / time					10-Jul-2023 10:37	10-Jul-2023 10:37	10-Jul-2023 10:38	10-Jul-2023 10:46	10-Jul-2023 10:47
Compound	CAS Number	LOR	Unit		EB2321032-001	EB2321032-002	EB2321032-003	EB2321032-004	EB2321032-005
					Result	Result	Result	Result	Result
EP080/071: Total Petroleum Hydrocarbons - Continued									
^ C10 - C36 Fraction (sum)	----	50	mg/kg		5270	6040	12500	11000	13400
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg		430	490	860	770	880
>C16 - C34 Fraction	----	100	mg/kg		4650	5330	11200	9790	12000
>C34 - C40 Fraction	----	100	mg/kg		740	860	1930	1680	2080
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		5820	6680	14000	12200	15000
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		430	490	860	770	880
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	<1	<1
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		0.0012	0.0013	0.0022	0.0016	0.0019
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg		<0.0002	0.0002	0.0003	0.0002	0.0003
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		0.0208	0.0231	0.0287	0.0219	0.0294
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		0.004	0.004	0.003	0.004	0.003



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN1005	BN1006	BN1009	BN1011	BN1012
Sampling date / time				10-Jul-2023 10:37	10-Jul-2023 10:37	10-Jul-2023 10:38	10-Jul-2023 10:46	10-Jul-2023 10:47
Compound	CAS Number	LOR	Unit	EB2321032-001	EB2321032-002	EB2321032-003	EB2321032-004	EB2321032-005
				Result	Result	Result	Result	Result
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	0.0059	0.0072	0.0049	0.0058	0.0042
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0040	0.0047	0.0041	0.0038	0.0048
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	0.0028	0.0032	0.0034	0.0026	0.0035
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0030	0.0028	0.0032	0.0030	0.0037
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	0.0010	0.0010	0.0014	0.0007	0.0011
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	0.0006	0.0007	0.0006	0.0004	0.0006
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	0.0007	0.0007	0.0012	0.0006	0.0009
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	0.0004	0.0004	0.0006	0.0004	0.0006
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN1005	BN1006	BN1009	BN1011	BN1012
Sampling date / time					10-Jul-2023 10:37	10-Jul-2023 10:37	10-Jul-2023 10:38	10-Jul-2023 10:46	10-Jul-2023 10:47
Compound	CAS Number	LOR	Unit		EB2321032-001	EB2321032-002	EB2321032-003	EB2321032-004	EB2321032-005
					Result	Result	Result	Result	Result
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids - Continued									
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
EP231_TOP_P: PFAS Sums									
Sum of PFAS	-----	0.0002	mg/kg		0.0444	0.0493	0.0536	0.0450	0.0540
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		0.0220	0.0244	0.0309	0.0235	0.0313
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	-----	0.0002	mg/kg		0.0444	0.0493	0.0536	0.0450	0.0540
Sum of TOP C4 - C14 as Fluorine	-----	0.0002	mg/kg		0.0290	0.0322	0.0350	0.0293	0.0353
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		<0.0002	<0.0005	<0.0002	<0.0002	<0.0002
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg		<0.0002	<0.0005	<0.0002	<0.0002	<0.0002
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		0.0020	0.0013	0.0029	0.0016	0.0032
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg		<0.0002	<0.0005	<0.0004	<0.0004	<0.0006
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		0.0291	0.0287	0.0359	0.0231	0.0322
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg		<0.0002	<0.0005	<0.0002	<0.0002	<0.0002
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		<0.001	<0.002	<0.001	<0.001	<0.001
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg		<0.0002	<0.0005	<0.0002	<0.0002	<0.0002
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg		0.0004	<0.0005	0.0004	0.0003	<0.0002
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg		0.0006	<0.0005	0.0009	0.0006	0.0009
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg		0.0020	0.0013	0.0027	0.0018	0.0028
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg		0.0005	<0.0005	0.0006	0.0004	0.0006
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg		<0.0002	<0.0005	0.0003	<0.0002	0.0002
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg		0.0009	0.0006	0.0013	0.0008	0.0010



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN1005	BN1006	BN1009	BN1011	BN1012
Sampling date / time					10-Jul-2023 10:37	10-Jul-2023 10:37	10-Jul-2023 10:38	10-Jul-2023 10:46	10-Jul-2023 10:47
Compound	CAS Number	LOR	Unit		EB2321032-001	EB2321032-002	EB2321032-003	EB2321032-004	EB2321032-005
					Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued									
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg		<0.0002	<0.0005	<0.0002	<0.0002	<0.0002
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg		0.0010	0.0005	0.0013	0.0008	0.0012
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg		<0.0005	<0.0012	<0.0005	<0.0005	<0.0005
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg		<0.0002	<0.0005	<0.0002	<0.0002	<0.0002
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg		<0.0005	<0.0012	<0.0005	<0.0005	<0.0005
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg		<0.0005	<0.0012	<0.0005	<0.0005	<0.0005
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg		<0.0005	<0.0012	<0.0005	<0.0005	<0.0005
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg		<0.0005	<0.0012	<0.0005	<0.0005	<0.0005
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg		<0.0002	<0.0005	<0.0002	<0.0002	<0.0002
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg		<0.0002	<0.0005	<0.0002	<0.0002	<0.0002
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg		0.0012	0.0013	0.0012	0.0013	0.0010
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		0.0023	0.0044	0.0028	0.0023	0.0028
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		0.0006	0.0009	0.0008	0.0007	0.0008
EP231P: PFAS Sums									
Sum of PFAS	----	0.0002	mg/kg		0.0406	0.0390	0.0511	0.0337	0.0467
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		0.0311	0.0300	0.0388	0.0247	0.0354



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN1005	BN1006	BN1009	BN1011	BN1012
Sampling date / time				10-Jul-2023 10:37	10-Jul-2023 10:37	10-Jul-2023 10:38	10-Jul-2023 10:46	10-Jul-2023 10:47
Compound	CAS Number	LOR	Unit	EB2321032-001	EB2321032-002	EB2321032-003	EB2321032-004	EB2321032-005
				Result	Result	Result	Result	Result
EP231P: PFAS Sums - Continued								
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	0.0376	0.0370	0.0468	0.0310	0.0429
EP080S: TPH(V)/BTEX Surrogates								
1,2-Dichloroethane-D4	17060-07-0	0.2	%	81.2	80.0	80.6	79.0	80.3
Toluene-D8	2037-26-5	0.2	%	89.8	88.0	88.1	89.6	90.0
4-Bromofluorobenzene	460-00-4	0.2	%	103	103	100	104	105
EP231 TOP S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	91.9	92.9	76.1	67.2	87.2
13C8-PFOA	----	0.0002	%	97.1	106	84.0	85.6	96.1
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	95.5	120	86.0	79.0	79.5
13C8-PFOA	----	0.0002	%	112	105	116	103	105



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN1013	BN1014	BN1015	BN1016	----
Sampling date / time					10-Jul-2023 10:47	10-Jul-2023 10:48	10-Jul-2023 10:49	10-Jul-2023 11:00	----
Compound	CAS Number	LOR	Unit		EB2321032-006	EB2321032-007	EB2321032-008	EB2321032-009	-----
					Result	Result	Result	Result	----
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	1.0	%		8.7	9.9	10.4	7.6	----
EA200: AS 4964 - 2004 Identification of Asbestos in Soils									
Asbestos Detected	1332-21-4	0.1	g/kg		No	----	----	----	----
Asbestos (Trace)	1332-21-4	-	-		No	----	----	----	----
Asbestos Type	1332-21-4	-	--		-	----	----	----	----
Sample weight (dry)	----	0.01	g		59.1	----	----	----	----
APPROVED IDENTIFIER:	----	-	--		M. TRAN	----	----	----	----
Synthetic Mineral Fibre	----	-	--		No	----	----	----	----
Organic Fibre	----	-	--		Yes	----	----	----	----
EG005(ED093)T: Total Metals by ICP-AES									
Arsenic	7440-38-2	5	mg/kg		10	9	10	17	----
Cadmium	7440-43-9	1	mg/kg		<1	<1	<1	<1	----
Chromium	7440-47-3	2	mg/kg		20	10	10	21	----
Copper	7440-50-8	5	mg/kg		114	59	61	122	----
Lead	7439-92-1	5	mg/kg		82	33	30	53	----
Nickel	7440-02-0	2	mg/kg		15	13	12	26	----
Zinc	7440-66-6	5	mg/kg		578	191	153	452	----
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)									
Initial pH	----	0.1	pH Unit		4.9	5.9	7.4	7.2	----
After HCl pH	----	0.1	pH Unit		----	1.4	1.5	1.5	----
Extraction Fluid Number	----	1	-		1	1	1	1	----
Final pH	----	0.1	pH Unit		5.0	5.2	5.1	5.1	----
EN33: TCLP Leach - Inorganics/PFAS (Plastic Vessel)									
Initial pH	----	0.1	pH Unit		4.9	5.9	7.4	7.2	----
After HCl pH	----	0.1	pH Unit		----	1.4	1.5	1.5	----
Extraction Fluid Number	----	1	-		1	1	1	1	----
Final pH	----	0.1	pH Unit		5.0	5.2	5.1	5.1	----
EN33Z: ZHE TCLP Leach									
Extraction Fluid Number	----	0.1	pH Unit		4.9	4.9	4.9	4.9	----
EP066: Polychlorinated Biphenyls (PCB)									
Total Polychlorinated biphenyls	----	0.1	mg/kg		----	----	----	<1.4	----
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	10	mg/kg		<10	26	<10	<10	----
C10 - C14 Fraction	----	50	mg/kg		390	940	710	720	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN1013	BN1014	BN1015	BN1016	----
Sampling date / time					10-Jul-2023 10:47	10-Jul-2023 10:48	10-Jul-2023 10:49	10-Jul-2023 11:00	----
Compound	CAS Number	LOR	Unit		EB2321032-006	EB2321032-007	EB2321032-008	EB2321032-009	-----
					Result	Result	Result	Result	----
EP080/071: Total Petroleum Hydrocarbons - Continued									
C15 - C28 Fraction	----	100	mg/kg		7990	9680	7780	14100	----
C29 - C36 Fraction	----	100	mg/kg		3950	4070	2790	6400	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg		12300	14700	11300	21200	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	48	15	<10	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	27	<10	<10	----
>C10 - C16 Fraction	----	50	mg/kg		830	1700	1440	1580	----
>C16 - C34 Fraction	----	100	mg/kg		11000	12500	9520	18800	----
>C34 - C40 Fraction	----	100	mg/kg		1890	1970	1450	3050	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		13700	16200	12400	23400	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		830	1700	1440	1580	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	----
Toluene	108-88-3	0.5	mg/kg		<0.5	0.6	2.7	<0.5	----
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	3.2	0.5	<0.5	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	12.9	1.9	<0.5	----
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	4.0	0.7	<0.5	----
^ Sum of BTEX	----	0.2	mg/kg		<0.2	20.7	5.8	<0.2	----
^ Total Xylenes	----	0.5	mg/kg		<0.5	16.9	2.6	<0.5	----
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	<1	----
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	<0.0002	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	<0.0002	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		0.0015	0.0013	0.0020	0.0024	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg		0.0002	0.0002	0.0002	0.0004	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		0.0187	0.0201	0.0226	0.0344	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	<0.0002	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN1013	BN1014	BN1015	BN1016	----
Sampling date / time				10-Jul-2023 10:47	10-Jul-2023 10:48	10-Jul-2023 10:49	10-Jul-2023 11:00	----
Compound	CAS Number	LOR	Unit	EB2321032-006	EB2321032-007	EB2321032-008	EB2321032-009	-----
				Result	Result	Result	Result	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	0.004	0.002	0.003	0.003	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	0.0051	0.0028	0.0049	0.0039	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0043	0.0035	0.0045	0.0048	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	0.0031	0.0026	0.0033	0.0040	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0033	0.0029	0.0034	0.0044	----
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	0.0009	0.0008	0.0008	0.0013	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	0.0005	0.0005	0.0005	0.0008	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	0.0007	0.0007	0.0007	0.0013	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	0.0002	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	0.0005	0.0006	0.0004	0.0008	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	<0.0002	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	<0.0002	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	<0.0002	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN1013	BN1014	BN1015	BN1016	----
Sampling date / time					10-Jul-2023 10:47	10-Jul-2023 10:48	10-Jul-2023 10:49	10-Jul-2023 11:00	----
Compound	CAS Number	LOR	Unit		EB2321032-006	EB2321032-007	EB2321032-008	EB2321032-009	-----
					Result	Result	Result	Result	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids - Continued									
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	<0.0005	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	<0.0005	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	<0.0005	----
EP231_TOP_P: PFAS Sums									
Sum of PFAS	----	0.0002	mg/kg		0.0428	0.0380	0.0463	0.0617	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		0.0202	0.0214	0.0246	0.0368	----
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.0002	mg/kg		0.0428	0.0380	0.0463	0.0617	----
Sum of TOP C4 - C14 as Fluorine	----	0.0002	mg/kg		0.0280	0.0249	0.0303	0.0404	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		<0.0002	<0.0005	<0.0005	<0.0002	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg		<0.0002	<0.0005	<0.0005	<0.0002	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		0.0032	<0.0005	0.0007	0.0031	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg		<0.0006	<0.0005	<0.0005	<0.0004	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		0.0262	0.0171	0.0170	0.0336	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg		<0.0002	<0.0005	<0.0005	<0.0002	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		<0.001	<0.002	<0.002	<0.001	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg		<0.0002	<0.0005	<0.0005	<0.0002	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg		<0.0002	<0.0005	<0.0005	0.0006	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg		0.0007	<0.0005	<0.0005	0.0012	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg		0.0024	0.0006	0.0006	0.0034	----
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg		0.0005	<0.0005	<0.0005	0.0007	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg		<0.0002	<0.0005	<0.0005	0.0004	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN1013	BN1014	BN1015	BN1016	----
Sampling date / time					10-Jul-2023 10:47	10-Jul-2023 10:48	10-Jul-2023 10:49	10-Jul-2023 11:00	----
Compound	CAS Number	LOR	Unit		EB2321032-006	EB2321032-007	EB2321032-008	EB2321032-009	-----
					Result	Result	Result	Result	----
EP231B: Perfluoroalkyl Carboxylic Acids - Continued									
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg		0.0009	<0.0005	<0.0005	0.0013	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg		<0.0002	<0.0005	<0.0005	<0.0002	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg		0.0011	<0.0005	<0.0005	0.0014	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg		<0.0005	<0.0012	<0.0012	<0.0005	----
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg		<0.0002	<0.0005	<0.0005	<0.0002	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg		<0.0005	<0.0012	<0.0012	<0.0005	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg		<0.0005	<0.0012	<0.0012	<0.0005	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg		<0.0005	<0.0012	<0.0012	<0.0005	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg		<0.0005	<0.0012	<0.0012	<0.0005	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg		<0.0002	<0.0005	<0.0005	<0.0002	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg		<0.0002	<0.0005	<0.0005	<0.0002	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	<0.0005	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg		0.0011	0.0006	0.0007	0.0008	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		0.0028	0.0024	0.0027	0.0025	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		0.0009	<0.0005	<0.0005	0.0007	----
EP231P: PFAS Sums									
Sum of PFAS	----	0.0002	mg/kg		0.0398	0.0207	0.0217	0.0497	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN1013	BN1014	BN1015	BN1016	----
Sampling date / time					10-Jul-2023 10:47	10-Jul-2023 10:48	10-Jul-2023 10:49	10-Jul-2023 11:00	----
Compound	CAS Number	LOR	Unit		EB2321032-006	EB2321032-007	EB2321032-008	EB2321032-009	-----
					Result	Result	Result	Result	----
EP231P: PFAS Sums - Continued									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		0.0294	0.0171	0.0177	0.0367	----
Sum of PFAS (WA DER List)	----	0.0002	mg/kg		0.0364	0.0207	0.0217	0.0452	----
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	0.1	%		----	----	----	Not Determined	----
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	0.2	%		80.2	75.3	75.6	73.2	----
Toluene-D8	2037-26-5	0.2	%		92.0	89.1	87.7	82.2	----
4-Bromofluorobenzene	460-00-4	0.2	%		108	93.2	99.8	96.8	----
EP231_TOP_S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		70.9	68.2	83.5	72.4	----
13C8-PFOA	----	0.0002	%		90.3	83.5	97.6	89.2	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		89.0	95.0	120	80.0	----
13C8-PFOA	----	0.0002	%		105	105	90.0	95.5	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN1005	BN1006	BN1009	BN1011	BN1012
Sampling date / time				10-Jul-2023 10:37	10-Jul-2023 10:37	10-Jul-2023 10:38	10-Jul-2023 10:46	10-Jul-2023 10:47
Compound	CAS Number	LOR	Unit	EB2321032-001	EB2321032-002	EB2321032-003	EB2321032-004	EB2321032-005
				Result	Result	Result	Result	Result
EG005(ED093)C: Leachable Metals by ICPAES								
Arsenic	7440-38-2	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium	7440-43-9	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Chromium	7440-47-3	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Copper	7440-50-8	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	2.0	<0.1	0.4
Nickel	7440-02-0	0.1	mg/L	<0.1	0.1	<0.1	<0.1	<0.1
Zinc	7440-66-6	0.1	mg/L	3.5	2.6	8.8	3.2	3.0
EP080/071: Total Petroleum Hydrocarbons								
C10 - C14 Fraction	----	50	µg/L	310	270	400	470	660
C15 - C28 Fraction	----	100	µg/L	950	750	1250	1140	1670
C29 - C36 Fraction	----	50	µg/L	60	<50	70	60	90
^ C10 - C36 Fraction (sum)	----	50	µg/L	1320	1020	1720	1670	2420
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	100	µg/L	470	380	610	680	930
>C16 - C34 Fraction	----	100	µg/L	860	700	1130	1020	1520
>C34 - C40 Fraction	----	100	µg/L	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	100	µg/L	1330	1080	1740	1700	2450
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	470	380	610	670	930
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.10	<0.10	<0.02	<0.10	<0.10
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.10	<0.10	<0.02	<0.10	<0.10
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.10	<0.10	<0.01	<0.10	<0.10
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.10	<0.10	<0.02	<0.10	<0.10
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.21	0.35	<0.01	0.32	0.38
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.10	<0.10	<0.02	<0.10	<0.10
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.5	<0.5	<0.1	<0.5	<0.5
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.10	<0.10	<0.02	<0.10	<0.10



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN1005	BN1006	BN1009	BN1011	BN1012
Sampling date / time				10-Jul-2023 10:37	10-Jul-2023 10:37	10-Jul-2023 10:38	10-Jul-2023 10:46	10-Jul-2023 10:47
Compound	CAS Number	LOR	Unit	EB2321032-001	EB2321032-002	EB2321032-003	EB2321032-004	EB2321032-005
				Result	Result	Result	Result	Result
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.10	<0.10	<0.02	<0.10	<0.10
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.10	<0.10	<0.02	<0.10	<0.10
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.10	<0.10	<0.01	<0.10	<0.10
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.10	<0.10	<0.02	<0.10	<0.10
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.10	<0.10	<0.02	<0.10	<0.10
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.10	<0.10	<0.02	<0.10	<0.10
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.10	<0.10	<0.02	<0.10	<0.10
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.10	<0.10	<0.02	<0.10	<0.10
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.25	<0.25	<0.05	<0.25	<0.25
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.10	<0.10	<0.02	<0.10	<0.10
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.25	<0.25	<0.05	<0.25	<0.25
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.25	<0.25	<0.05	<0.25	<0.25
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.25	<0.25	<0.05	<0.25	<0.25
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.25	<0.25	<0.05	<0.25	<0.25
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.10	<0.10	<0.02	<0.10	<0.10
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.10	<0.10	<0.02	<0.10	<0.10
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.10	<0.10	<0.05	<0.10	<0.10
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.10	<0.10	<0.05	<0.10	<0.10



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID				BN1005	BN1006	BN1009	BN1011	BN1012
Sampling date / time				10-Jul-2023 10:37	10-Jul-2023 10:37	10-Jul-2023 10:38	10-Jul-2023 10:46	10-Jul-2023 10:47
Compound	CAS Number	LOR	Unit	EB2321032-001	EB2321032-002	EB2321032-003	EB2321032-004	EB2321032-005
				Result	Result	Result	Result	Result
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids - Continued								
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.10	<0.10	<0.05	<0.10	<0.10
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.10	<0.10	<0.05	<0.10	<0.10
EP231_TOP_P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	0.21	0.35	<0.01	0.32	0.38
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	0.21	0.35	<0.01	0.32	0.38
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.01	µg/L	0.21	0.35	<0.01	0.32	0.38
^ Sum of TOP C4 - C14 as Fluorine	----	0.01	µg/L	0.14	0.23	<0.01	0.21	0.24
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	0.02	0.03	0.03	0.01	0.04
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.26	0.35	0.32	0.24	0.36
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.04
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	0.02	0.04	0.04	0.02	0.04
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN1005	BN1006	BN1009	BN1011	BN1012
Sampling date / time				10-Jul-2023 10:37	10-Jul-2023 10:37	10-Jul-2023 10:38	10-Jul-2023 10:46	10-Jul-2023 10:47
Compound	CAS Number	LOR	Unit	EB2321032-001	EB2321032-002	EB2321032-003	EB2321032-004	EB2321032-005
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.09	<0.09	<0.09	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.04	<0.02
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	0.30	0.42	0.39	0.27	0.44
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	0.28	0.38	0.35	0.25	0.40



Analytical Results

Sub-Matrix: TCLP LEACHATE (Matrix: WATER)				Sample ID	BN1005	BN1006	BN1009	BN1011	BN1012
Sampling date / time					10-Jul-2023 10:37	10-Jul-2023 10:37	10-Jul-2023 10:38	10-Jul-2023 10:46	10-Jul-2023 10:47
Compound	CAS Number	LOR	Unit		EB2321032-001	EB2321032-002	EB2321032-003	EB2321032-004	EB2321032-005
					Result	Result	Result	Result	Result
EP231P: PFAS Sums - Continued									
Sum of PFAS (WA DER List)	----	0.01	µg/L		0.30	0.42	0.39	0.27	0.44
EP231_TOP_S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		90.0	93.0	97.5	97.5	94.0
13C8-PFOA	----	0.02	%		104	101	110	100	98.5
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		118	112	95.9	100	102
13C8-PFOA	----	0.02	%		106	109	111	108	109



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN1013	BN1014	BN1015	BN1016	----
Sampling date / time				10-Jul-2023 10:47	10-Jul-2023 10:48	10-Jul-2023 10:49	10-Jul-2023 11:00	----
Compound	CAS Number	LOR	Unit	EB2321032-006	EB2321032-007	EB2321032-008	EB2321032-009	-----
				Result	Result	Result	Result	----
EG005(ED093)C: Leachable Metals by ICPAES								
Arsenic	7440-38-2	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	----
Cadmium	7440-43-9	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	----
Chromium	7440-47-3	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	----
Copper	7440-50-8	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	----
Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	----
Nickel	7440-02-0	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	----
Zinc	7440-66-6	0.1	mg/L	3.3	2.7	2.5	4.2	----
EP066: Polychlorinated Biphenyls (PCB)								
^ Total Polychlorinated biphenyls	----	1	µg/L	----	----	----	<3	----
EP080/071: Total Petroleum Hydrocarbons								
C10 - C14 Fraction	----	50	µg/L	280	1440	1470	640	----
C15 - C28 Fraction	----	100	µg/L	900	5140	6630	1930	----
C29 - C36 Fraction	----	50	µg/L	<50	160	200	80	----
^ C10 - C36 Fraction (sum)	----	50	µg/L	1180	6740	8300	2650	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	100	µg/L	440	2080	2070	970	----
>C16 - C34 Fraction	----	100	µg/L	820	4810	6370	1720	----
>C34 - C40 Fraction	----	100	µg/L	<100	<100	<100	<100	----
^ >C10 - C40 Fraction (sum)	----	100	µg/L	1260	6890	8440	2690	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	440	2080	2070	970	----
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.10	<0.10	<0.10	<0.10	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.10	<0.10	<0.10	<0.10	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.10	<0.10	<0.10	<0.10	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.10	<0.10	<0.10	<0.10	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.37	0.31	0.31	0.29	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.10	<0.10	<0.10	<0.10	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN1013	BN1014	BN1015	BN1016	----
Sampling date / time				10-Jul-2023 10:47	10-Jul-2023 10:48	10-Jul-2023 10:49	10-Jul-2023 11:00	----
Compound	CAS Number	LOR	Unit	EB2321032-006	EB2321032-007	EB2321032-008	EB2321032-009	-----
				Result	Result	Result	Result	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.5	<0.5	<0.5	<0.5	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.10	<0.10	<0.10	<0.10	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	0.10	<0.10	<0.10	<0.10	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.10	<0.10	<0.10	<0.10	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.10	<0.10	<0.10	<0.10	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.10	<0.10	<0.10	<0.10	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.10	<0.10	<0.10	<0.10	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.10	<0.10	<0.10	<0.10	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.10	<0.10	<0.10	<0.10	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.10	<0.10	<0.10	<0.10	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.25	<0.25	<0.25	<0.25	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.10	<0.10	<0.10	<0.10	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.25	<0.25	<0.25	<0.25	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.25	<0.25	<0.25	<0.25	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.25	<0.25	<0.25	<0.25	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.25	<0.25	<0.25	<0.25	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.10	<0.10	<0.10	<0.10	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.10	<0.10	<0.10	<0.10	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.10	<0.10	<0.10	<0.10	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN1013	BN1014	BN1015	BN1016	----
Sampling date / time				10-Jul-2023 10:47	10-Jul-2023 10:48	10-Jul-2023 10:49	10-Jul-2023 11:00	----
Compound	CAS Number	LOR	Unit	EB2321032-006	EB2321032-007	EB2321032-008	EB2321032-009	-----
				Result	Result	Result	Result	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids - Continued								
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.10	<0.10	<0.10	<0.10	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.10	<0.10	<0.10	<0.10	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.10	<0.10	<0.10	<0.10	----
EP231_TOP_P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	0.47	0.31	0.31	0.29	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	0.37	0.31	0.31	0.29	----
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.01	µg/L	0.47	0.31	0.31	0.29	----
^ Sum of TOP C4 - C14 as Fluorine	----	0.01	µg/L	0.30	0.20	0.20	0.19	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	0.04	0.02	0.02	0.02	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.38	0.30	0.34	0.37	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.04	<0.02	<0.02	<0.02	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	0.04	0.03	<0.04	0.04	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN1013	BN1014	BN1015	BN1016	----
Sampling date / time				10-Jul-2023 10:47	10-Jul-2023 10:48	10-Jul-2023 10:49	10-Jul-2023 11:00	----
Compound	CAS Number	LOR	Unit	EB2321032-006	EB2321032-007	EB2321032-008	EB2321032-009	-----
				Result	Result	Result	Result	----
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
EP231P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	0.46	0.35	0.36	0.43	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

				Sample ID	BN1013	BN1014	BN1015	BN1016	----
Sampling date / time					10-Jul-2023 10:47	10-Jul-2023 10:48	10-Jul-2023 10:49	10-Jul-2023 11:00	----
Compound	CAS Number	LOR	Unit		EB2321032-006	EB2321032-007	EB2321032-008	EB2321032-009	-----
					Result	Result	Result	Result	----
EP231P: PFAS Sums - Continued									
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		0.42	0.32	0.36	0.39	----
Sum of PFAS (WA DER List)	----	0.01	µg/L		0.46	0.35	0.36	0.43	----
EP066S: PCB Surrogate									
Decachlorobiphenyl	2051-24-3	1	%		----	----	----	121	----
EP231_TOP_S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		106	95.5	99.5	92.5	----
13C8-PFOA	----	0.02	%		114	103	104	100	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		117	112	127	108	----
13C8-PFOA	----	0.02	%		108	105	103	107	----



Analytical Results

Sub-Matrix: ZHE LEACHATE
 (Matrix: WATER)

Sample ID

				BN1005	BN1006	BN1009	BN1011	BN1012
Sampling date / time				10-Jul-2023 10:37	10-Jul-2023 10:37	10-Jul-2023 10:38	10-Jul-2023 10:46	10-Jul-2023 10:47
Compound	CAS Number	LOR	Unit	EB2321032-001	EB2321032-002	EB2321032-003	EB2321032-004	EB2321032-005
				Result	Result	Result	Result	Result
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	µg/L	<20	<20	<20	<20	20
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	<20	<20	30
[^] C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	<20	<20	<20	<20	20
EP080: BTEXN								
Benzene	71-43-2	1	µg/L	<1	<1	<1	<1	<1
Toluene	108-88-3	2	µg/L	<2	<2	<2	<2	4
Ethylbenzene	100-41-4	2	µg/L	<2	<2	<2	<2	<2
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	<2	<2	4
ortho-Xylene	95-47-6	2	µg/L	<2	<2	<2	2	<2
[^] Total Xylenes	----	2	µg/L	<2	<2	<2	2	4
[^] Sum of BTEX	----	1	µg/L	<1	<1	<1	2	8
Naphthalene	91-20-3	5	µg/L	<5	<5	<5	10	<5
EP080S: TPH(V)/BTEX Surrogates								
1,2-Dichloroethane-D4	17060-07-0	2	%	86.2	88.0	89.5	89.2	101
Toluene-D8	2037-26-5	2	%	93.2	97.4	95.9	94.7	96.3
4-Bromofluorobenzene	460-00-4	2	%	115	115	116	114	114



Analytical Results

Sub-Matrix: ZHE LEACHATE
 (Matrix: WATER)

Sample ID				BN1013	BN1014	BN1015	BN1016	----
Sampling date / time				10-Jul-2023 10:47	10-Jul-2023 10:48	10-Jul-2023 10:49	10-Jul-2023 11:00	----
Compound	CAS Number	LOR	Unit	EB2321032-006	EB2321032-007	EB2321032-008	EB2321032-009	-----
				Result	Result	Result	Result	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	µg/L	20	110	140	<20	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	20	µg/L	<20	130	150	20	----
[^] C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	<20	40	40	<20	----
EP080: BTEXN								
Benzene	71-43-2	1	µg/L	<1	<1	<1	<1	----
Toluene	108-88-3	2	µg/L	2	8	67	2	----
Ethylbenzene	100-41-4	2	µg/L	<2	13	8	<2	----
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	2	48	26	<2	----
ortho-Xylene	95-47-6	2	µg/L	<2	18	10	<2	----
[^] Total Xylenes	----	2	µg/L	2	66	36	<2	----
[^] Sum of BTEX	----	1	µg/L	4	87	111	2	----
Naphthalene	91-20-3	5	µg/L	<5	<5	<5	<5	----
EP080S: TPH(V)/BTEX Surrogates								
1,2-Dichloroethane-D4	17060-07-0	2	%	97.1	93.8	89.6	105	----
Toluene-D8	2037-26-5	2	%	96.5	98.3	100	98.6	----
4-Bromofluorobenzene	460-00-4	2	%	119	113	111	117	----

Analytical Results

Descriptive Results

Sub-Matrix: SOIL

Method: Compound	Sample ID - Sampling date / time	Analytical Results
EA200: AS 4964 - 2004 Identification of Asbestos in Soils		
EA200: Description	BN1005 - 10-Jul-2023 10:37	Grey soil with organic matter.
EA200: Description	BN1009 - 10-Jul-2023 10:38	Grey soil with organic matter.
EA200: Description	BN1012 - 10-Jul-2023 10:47	Grey rocky soil with organic matter.
EA200: Description	BN1013 - 10-Jul-2023 10:47	Grey rocky soil with organic matter.



Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP066S: PCB Surrogate			
Decachlorobiphenyl	2051-24-3	16	134
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	53	134
Toluene-D8	2037-26-5	60	131
4-Bromofluorobenzene	460-00-4	59	127
EP231_TOP_S: PFAS Surrogate			
13C4-PFOS	----	47	129
13C8-PFOA	----	56	128
EP231S: PFAS Surrogate			
13C4-PFOS	----	76	136
13C8-PFOA	----	78	131

Sub-Matrix: TCLP LEACHATE		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP066S: PCB Surrogate			
Decachlorobiphenyl	2051-24-3	37	138
EP231_TOP_S: PFAS Surrogate			
13C4-PFOS	----	55	131
13C8-PFOA	----	66	128
EP231S: PFAS Surrogate			
13C4-PFOS	----	65	140
13C8-PFOA	----	71	133

Sub-Matrix: ZHE LEACHATE		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	66	138
Toluene-D8	2037-26-5	79	120
4-Bromofluorobenzene	460-00-4	74	118

Inter-Laboratory Testing

Analysis conducted by ALS Melbourne, NATA accreditation no. 825, site no. 13778 (Chemistry).

(SOIL) EA200: AS 4964 - 2004 Identification of Asbestos in Soils



CERTIFICATE OF ANALYSIS

Work Order : **EB2323324**
Client : **HI QUALITY**
Contact : **EMILY GIBSON**
Address :
Telephone : **07 30595009**
Project : **Treated Solid Waste**
Order number : **-**
C-O-C number : **55370**
Sampler : **EMILY GIBSON**
Site : **Yatala WTS**
Quote number : **EN333 - ALS Compass Sites**
No. of samples received : **8**
No. of samples analysed : **8**

Page : 1 of 28
Laboratory : Environmental Division Brisbane
Contact : Customer Services EB
Address : 2 Byth Street Stafford QLD Australia 4053
Telephone : +61-7-3243 7222
Date Samples Received : 31-Jul-2023 16:05
Date Analysis Commenced : 01-Aug-2023
Issue Date : 09-Aug-2023 14:18



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
- Descriptive 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
Beatriz Llarinas	Senior Chemist - Inorganics	Brisbane Inorganics, Stafford, QLD
Kirsty Watson	Senior Chemist - Organics	Brisbane Organics, Stafford, QLD
Sarah Ashworth	Laboratory Manager - Brisbane	Brisbane Organics, Stafford, QLD
Tim Kuo	Approved Asbestos Identifier	Melbourne Asbestos, Springvale, VIC
Timothy Creagh	Senior Chemist - Organics	Brisbane Organics, Stafford, QLD



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.

- EA200G Asbestos analysis conducted by ALS Melbourne, NATA accreditation no. 825, site no 13778
- EP231X PFAS: The LOR for particular analytes has been raised due to matrix interference.
- EP231X - Per- and Polyfluoroalkyl Substances (PFAS): Samples received in 20ml or 125ml bottles have been tested in accordance with the QSM5.3 compliant, NATA accredited method. 60mL or 250mL bottles have been tested to the legacy QSM 5.1 aligned, NATA accredited method.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EG005T (Total Metals by ICP-AES): EB2323312-001 shows poor duplicate results due to sample heterogeneity. This has been confirmed by visual inspection.
- EG005T (Total Metals by ICP-AES): BN1036 (EB2323324-002) shows poor duplicate results due to sample heterogeneity. This has been confirmed by visual inspection.
- EP231X (TOP) PFAS TOPA: Samples 'BN1040' (EB2323324-005) and 'BN1044' (EB2323324-008) required dilution prior to extraction due to matrix interferences. LOR values have been adjusted accordingly. The LOR of PFBA has been raised further for sample 'BN1040' (EB2323324-005) due to additional matrix interference.
- EP231X (TOP) PFAS TOPA: The LORs of particular analytes for particular samples have been raised due to sample matrix interferences (Internal Standard Suppression). The LOR of PFBA has been raised further due to additional matrix interferences.
- EA200 'Am' Amosite (brown asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)
- EA200 'Trace' - Asbestos fibres ("Free Fibres") detected by trace analysis per AS4964. The result can be interpreted that the sample contains detectable 'respirable' asbestos fibres
- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.
- EA200 Legend
- EA200 'Ch' Chrysotile (white asbestos)
- EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.
- EA200: For samples larger than 30g, the <2mm fraction may be sub-sampled prior to trace analysis as outlined in ISO23909:2008(E) Sect 6.3.2-2
- EA200: 'Yes' - Asbestos detected by polarised light microscopy including dispersion staining.
- EA200: 'No*' - No asbestos found, at the reporting limit of 0.1g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at concentrations estimated to be below 0.1g/kg.
- EA200: 'No' - No asbestos found at the reporting limit 0.1g/kg, by polarised light microscopy including dispersion staining.
- 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.



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- EN33: Where leachable PFAS analysis is requested, centrifugation rather than pressure filtration is used as the default approach for removal of particulates, in line with AS 4439.3.



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN1034	BN1036	BN1038	BN1039	BN1040
Sampling date / time				28-Jul-2023 09:41	28-Jul-2023 09:41	28-Jul-2023 09:41	28-Jul-2023 09:42	28-Jul-2023 09:42
Compound	CAS Number	LOR	Unit	EB2323324-001	EB2323324-002	EB2323324-003	EB2323324-004	EB2323324-005
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	10.3	12.8	10.1	9.7	8.0
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	----	----	No	----	----
Asbestos (Trace)	1332-21-4	-	-	----	----	No	----	----
Asbestos Type	1332-21-4	-	--	----	----	-	----	----
Sample weight (dry)	----	0.01	g	----	----	64.5	----	----
APPROVED IDENTIFIER:	----	-	--	----	----	T. KUO	----	----
Synthetic Mineral Fibre	----	-	--	----	----	No	----	----
Organic Fibre	----	-	--	----	----	Yes	----	----
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	12	13	12	12	10
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	13	13	12	13	12
Copper	7440-50-8	5	mg/kg	81	83	58	56	58
Lead	7439-92-1	5	mg/kg	35	37	27	32	46
Nickel	7440-02-0	2	mg/kg	14	14	11	12	12
Zinc	7440-66-6	5	mg/kg	199	194	136	150	249
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)								
Initial pH	----	0.1	pH Unit	6.3	6.8	4.4	5.0	5.2
After HCl pH	----	0.1	pH Unit	1.4	1.5	----	----	1.4
Extraction Fluid Number	----	1	-	1	1	1	1	1
Final pH	----	0.1	pH Unit	5.1	5.1	5.2	5.2	5.3
EN33: TCLP Leach - Inorganics/PFAS (Plastic Vessel)								
Initial pH	----	0.1	pH Unit	5.9	----	----	4.5	4.6
After HCl pH	----	0.1	pH Unit	1.4	----	----	----	----
Extraction Fluid Number	----	1	-	1	----	----	1	1
Final pH	----	0.1	pH Unit	5.0	----	----	4.9	5.0
EN33Z: ZHE TCLP Leach								
Extraction Fluid Number	----	0.1	pH Unit	4.9	4.9	4.9	4.9	4.9
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg	380	300	220	320	350
C15 - C28 Fraction	----	100	mg/kg	9620	7790	5290	6900	6630
C29 - C36 Fraction	----	100	mg/kg	4840	3910	2720	3520	3270



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN1034	BN1036	BN1038	BN1039	BN1040
Sampling date / time					28-Jul-2023 09:41	28-Jul-2023 09:41	28-Jul-2023 09:41	28-Jul-2023 09:42	28-Jul-2023 09:42
Compound	CAS Number	LOR	Unit		EB2323324-001	EB2323324-002	EB2323324-003	EB2323324-004	EB2323324-005
					Result	Result	Result	Result	Result
EP080/071: Total Petroleum Hydrocarbons - Continued									
^ C10 - C36 Fraction (sum)	----	50	mg/kg		14800	12000	8230	10700	10200
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg		880	700	500	680	740
>C16 - C34 Fraction	----	100	mg/kg		13300	10800	7360	9580	9080
>C34 - C40 Fraction	----	100	mg/kg		2380	1970	1410	1760	1650
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		16600	13500	9270	12000	11500
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		880	700	500	680	740
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	<1	<1
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		<0.0002	----	----	<0.0002	<0.0005
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg		<0.0002	----	----	0.0003	<0.0005
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		0.0010	----	----	0.0017	0.0017
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg		0.0002	----	----	0.0011	<0.0005
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		0.0275	----	----	0.0440	0.0290
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg		<0.0002	----	----	<0.0002	<0.0005
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		0.002	----	----	0.021	<0.029



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN1034	BN1036	BN1038	BN1039	BN1040
Sampling date / time				28-Jul-2023 09:41	28-Jul-2023 09:41	28-Jul-2023 09:41	28-Jul-2023 09:42	28-Jul-2023 09:42
Compound	CAS Number	LOR	Unit	EB2323324-001	EB2323324-002	EB2323324-003	EB2323324-004	EB2323324-005
				Result	Result	Result	Result	Result
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	0.0044	----	----	0.0461	0.0528
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0034	----	----	0.0226	0.0339
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	0.0022	----	----	0.0093	0.0119
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0023	----	----	0.0056	0.0075
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	0.0010	----	----	0.0020	0.0017
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	0.0005	----	----	0.0009	0.0009
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	0.0006	----	----	0.0008	0.0006
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	----	----	<0.0002	<0.0005
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	0.0004	----	----	0.0004	<0.0005
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	----	----	<0.0005	<0.0013
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	----	----	<0.0002	<0.0005
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	----	----	<0.0005	<0.0013
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	----	----	<0.0005	<0.0013
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	----	----	<0.0005	<0.0013
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	----	----	<0.0005	<0.0013
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	----	----	<0.0002	<0.0005
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	----	----	<0.0002	<0.0005
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	----	----	<0.0005	<0.0005
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	----	----	<0.0005	<0.0005



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN1034	BN1036	BN1038	BN1039	BN1040
Sampling date / time					28-Jul-2023 09:41	28-Jul-2023 09:41	28-Jul-2023 09:41	28-Jul-2023 09:42	28-Jul-2023 09:42
Compound	CAS Number	LOR	Unit		EB2323324-001	EB2323324-002	EB2323324-003	EB2323324-004	EB2323324-005
					Result	Result	Result	Result	Result
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids - Continued									
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		<0.0005	----	----	<0.0005	<0.0005
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		<0.0005	----	----	<0.0005	<0.0005
EP231_TOP_P: PFAS Sums									
Sum of PFAS	----	0.0002	mg/kg		0.0455	----	----	0.156	0.140
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		0.0285	----	----	0.0457	0.0307
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.0002	mg/kg		0.0455	----	----	0.156	0.140
Sum of TOP C4 - C14 as Fluorine	----	0.0002	mg/kg		0.0297	----	----	0.101	0.0920
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		<0.0002	----	----	<0.0002	<0.0002
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg		<0.0002	----	----	<0.0002	<0.0002
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		0.0010	----	----	0.0012	0.0009
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg		<0.0002	----	----	0.0005	0.0008
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		0.0403	----	----	0.0397	0.0325
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg		<0.0002	----	----	0.0004	0.0003
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		<0.001	----	----	0.001	0.001
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg		0.0002	----	----	0.0050	0.0039
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg		0.0003	----	----	0.0056	0.0044
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg		0.0003	----	----	0.0012	0.0011
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg		0.0010	----	----	0.0019	0.0019
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg		0.0004	----	----	0.0004	0.0009
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg		<0.0002	----	----	0.0003	0.0003
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg		0.0007	----	----	0.0006	0.0009



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN1034	BN1036	BN1038	BN1039	BN1040
Sampling date / time					28-Jul-2023 09:41	28-Jul-2023 09:41	28-Jul-2023 09:41	28-Jul-2023 09:42	28-Jul-2023 09:42
Compound	CAS Number	LOR	Unit		EB2323324-001	EB2323324-002	EB2323324-003	EB2323324-004	EB2323324-005
					Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued									
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg		0.0002	----	----	0.0004	<0.0002
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg		0.0003	----	----	0.0004	0.0004
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg		<0.0005	----	----	<0.0005	<0.0005
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg		<0.0002	----	----	<0.0002	<0.0002
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg		<0.0005	----	----	<0.0005	<0.0005
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg		<0.0005	----	----	<0.0005	<0.0005
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg		<0.0005	----	----	<0.0005	<0.0005
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg		<0.0005	----	----	<0.0005	<0.0005
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg		<0.0002	----	----	<0.0002	<0.0002
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg		<0.0002	----	----	<0.0002	<0.0002
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg		<0.0005	----	----	<0.0005	<0.0005
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg		0.0006	----	----	0.0175	0.0172
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		0.0028	----	----	0.0067	0.0056
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		0.0007	----	----	0.0008	0.0007
EP231P: PFAS Sums									
Sum of PFAS	----	0.0002	mg/kg		0.0488	----	----	0.0836	0.0728
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		0.0413	----	----	0.0409	0.0334



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN1034	BN1036	BN1038	BN1039	BN1040
Sampling date / time				28-Jul-2023 09:41	28-Jul-2023 09:41	28-Jul-2023 09:41	28-Jul-2023 09:42	28-Jul-2023 09:42
Compound	CAS Number	LOR	Unit	EB2323324-001	EB2323324-002	EB2323324-003	EB2323324-004	EB2323324-005
				Result	Result	Result	Result	Result
EP231P: PFAS Sums - Continued								
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	0.0465	----	----	0.0798	0.0685
EP080S: TPH(V)/BTEX Surrogates								
1,2-Dichloroethane-D4	17060-07-0	0.2	%	84.6	97.5	93.2	92.9	97.4
Toluene-D8	2037-26-5	0.2	%	81.0	88.0	82.6	84.1	87.3
4-Bromofluorobenzene	460-00-4	0.2	%	92.0	97.4	97.7	96.2	97.1
EP231 TOP S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	108	----	----	98.2	99.8
13C8-PFOA	----	0.0002	%	95.6	----	----	92.9	78.8
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	77.0	----	----	96.0	134
13C8-PFOA	----	0.0002	%	99.0	----	----	99.0	95.0



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN1042	BN1043	BN1044	----	----
Sampling date / time				31-Jul-2023 10:29	31-Jul-2023 10:30	31-Jul-2023 10:35	----	----
Compound	CAS Number	LOR	Unit	EB2323324-006	EB2323324-007	EB2323324-008	-----	-----
				Result	Result	Result	----	----
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	8.0	8.8	7.5	----	----
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	----	No	----	----	----
Asbestos (Trace)	1332-21-4	-	-	----	No	----	----	----
Asbestos Type	1332-21-4	-	--	----	-	----	----	----
Sample weight (dry)	----	0.01	g	----	59.0	----	----	----
APPROVED IDENTIFIER:	----	-	--	----	T. KUO	----	----	----
Synthetic Mineral Fibre	----	-	--	----	No	----	----	----
Organic Fibre	----	-	--	----	Yes	----	----	----
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	20	18	11	----	----
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	----	----
Chromium	7440-47-3	2	mg/kg	20	13	13	----	----
Copper	7440-50-8	5	mg/kg	120	66	54	----	----
Lead	7439-92-1	5	mg/kg	53	34	31	----	----
Nickel	7440-02-0	2	mg/kg	26	19	13	----	----
Zinc	7440-66-6	5	mg/kg	1160	771	524	----	----
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)								
Initial pH	----	0.1	pH Unit	5.4	5.8	5.8	----	----
After HCl pH	----	0.1	pH Unit	1.5	1.5	1.4	----	----
Extraction Fluid Number	----	1	-	1	1	1	----	----
Final pH	----	0.1	pH Unit	5.2	5.1	5.1	----	----
EN33: TCLP Leach - Inorganics/PFAS (Plastic Vessel)								
Initial pH	----	0.1	pH Unit	5.6	----	6.0	----	----
After HCl pH	----	0.1	pH Unit	1.5	----	1.4	----	----
Extraction Fluid Number	----	1	-	1	----	1	----	----
Final pH	----	0.1	pH Unit	5.0	----	5.0	----	----
EN33Z: ZHE TCLP Leach								
Extraction Fluid Number	----	0.1	pH Unit	4.9	4.9	4.9	----	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	----	----
C10 - C14 Fraction	----	50	mg/kg	1410	7920	3220	----	----
C15 - C28 Fraction	----	100	mg/kg	8140	21400	11200	----	----
C29 - C36 Fraction	----	100	mg/kg	3850	4830	3420	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN1042	BN1043	BN1044	----	----
Sampling date / time					31-Jul-2023 10:29	31-Jul-2023 10:30	31-Jul-2023 10:35	----	----
Compound	CAS Number	LOR	Unit		EB2323324-006	EB2323324-007	EB2323324-008	-----	-----
					Result	Result	Result	----	----
EP080/071: Total Petroleum Hydrocarbons - Continued									
^ C10 - C36 Fraction (sum)	----	50	mg/kg		13400	34200	17800	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	<10	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	<10	<10	----	----
>C10 - C16 Fraction	----	50	mg/kg		1870	9370	3970	----	----
>C16 - C34 Fraction	----	100	mg/kg		11000	24600	13600	----	----
>C34 - C40 Fraction	----	100	mg/kg		1870	2330	1740	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		14700	36300	19300	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		1850	9350	3960	----	----
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	----	----
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	<0.2	----	----
^ Total Xylenes	----	0.5	mg/kg		<0.5	<0.5	<0.5	----	----
Naphthalene	91-20-3	1	mg/kg		22	17	13	----	----
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		<0.0002	----	<0.0005	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg		<0.0002	----	<0.0005	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		0.0015	----	0.0013	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg		0.0003	----	<0.0005	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		0.0404	----	0.0290	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg		<0.0002	----	<0.0005	----	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		0.003	----	0.007	----	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN1042	BN1043	BN1044	----	----
Sampling date / time				31-Jul-2023 10:29	31-Jul-2023 10:30	31-Jul-2023 10:35	----	----
Compound	CAS Number	LOR	Unit	EB2323324-006	EB2323324-007	EB2323324-008	-----	-----
				Result	Result	Result	----	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	0.0068	----	0.0109	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0056	----	0.0106	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	0.0029	----	0.0089	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0036	----	0.0065	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	0.0012	----	0.0016	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	0.0005	----	0.0008	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	0.0007	----	0.0006	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	----	<0.0005	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	0.0004	----	<0.0005	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	----	<0.0013	----	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	----	<0.0005	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	----	<0.0013	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	----	<0.0013	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	----	<0.0013	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	----	<0.0013	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	----	<0.0005	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	----	<0.0005	----	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	----	<0.0005	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	----	<0.0005	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN1042	BN1043	BN1044	----	----
Sampling date / time					31-Jul-2023 10:29	31-Jul-2023 10:30	31-Jul-2023 10:35	----	----
Compound	CAS Number	LOR	Unit		EB2323324-006	EB2323324-007	EB2323324-008	-----	-----
					Result	Result	Result	----	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids - Continued									
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		<0.0005	----	<0.0005	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		<0.0005	----	<0.0005	----	----
EP231_TOP_P: PFAS Sums									
Sum of PFAS	-----	0.0002	mg/kg		0.0669	----	0.0772	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		0.0419	----	0.0303	----	----
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	-----	0.0002	mg/kg		0.0669	----	0.0772	----	----
Sum of TOP C4 - C14 as Fluorine	-----	0.0002	mg/kg		0.0436	----	0.0506	----	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		<0.0002	----	<0.0002	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg		<0.0002	----	<0.0002	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		0.0020	----	0.0011	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg		<0.0002	----	<0.0002	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		0.0254	----	0.0261	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg		<0.0002	----	<0.0002	----	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		<0.001	----	<0.001	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg		0.0007	----	0.0007	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg		0.0006	----	0.0005	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg		0.0006	----	0.0005	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg		0.0008	----	0.0009	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg		0.0007	----	0.0005	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg		0.0002	----	0.0002	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg		0.0010	----	0.0006	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN1042	BN1043	BN1044	----	----
Sampling date / time					31-Jul-2023 10:29	31-Jul-2023 10:30	31-Jul-2023 10:35	----	----
Compound	CAS Number	LOR	Unit		EB2323324-006	EB2323324-007	EB2323324-008	-----	-----
					Result	Result	Result	----	----
EP231B: Perfluoroalkyl Carboxylic Acids - Continued									
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg		<0.0002	----	0.0002	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg		0.0006	----	0.0005	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg		<0.0005	----	<0.0005	----	----
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg		<0.0002	----	<0.0002	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg		<0.0005	----	<0.0005	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg		<0.0005	----	<0.0005	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg		<0.0005	----	<0.0005	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg		<0.0005	----	<0.0005	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg		<0.0002	----	<0.0002	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg		<0.0002	----	<0.0002	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg		<0.0005	----	<0.0005	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg		0.0017	----	0.0016	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		0.0032	----	0.0034	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		0.0007	----	0.0007	----	----
EP231P: PFAS Sums									
Sum of PFAS	----	0.0002	mg/kg		0.0382	----	0.0375	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		0.0274	----	0.0272	----	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN1042	BN1043	BN1044	----	----
Sampling date / time				31-Jul-2023 10:29	31-Jul-2023 10:30	31-Jul-2023 10:35	----	----
Compound	CAS Number	LOR	Unit	EB2323324-006	EB2323324-007	EB2323324-008	-----	-----
				Result	Result	Result	----	----
EP231P: PFAS Sums - Continued								
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	0.0350	----	0.0348	----	----
EP080S: TPH(V)/BTEX Surrogates								
1,2-Dichloroethane-D4	17060-07-0	0.2	%	91.2	93.6	88.7	----	----
Toluene-D8	2037-26-5	0.2	%	83.7	90.9	88.5	----	----
4-Bromofluorobenzene	460-00-4	0.2	%	96.7	97.4	96.7	----	----
EP231_TOP_S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	94.5	----	105	----	----
13C8-PFOA	----	0.0002	%	91.9	----	78.8	----	----
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	76.5	----	77.0	----	----
13C8-PFOA	----	0.0002	%	94.0	----	94.5	----	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN1034	BN1036	BN1038	BN1039	BN1040
Sampling date / time				28-Jul-2023 09:41	28-Jul-2023 09:41	28-Jul-2023 09:41	28-Jul-2023 09:42	28-Jul-2023 09:42
Compound	CAS Number	LOR	Unit	EB2323324-001	EB2323324-002	EB2323324-003	EB2323324-004	EB2323324-005
				Result	Result	Result	Result	Result
EG005(ED093)C: Leachable Metals by ICPAES								
Arsenic	7440-38-2	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium	7440-43-9	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Chromium	7440-47-3	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Copper	7440-50-8	0.1	mg/L	<0.1	0.1	<0.1	<0.1	<0.1
Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	7440-02-0	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc	7440-66-6	0.1	mg/L	2.6	2.6	3.4	2.8	2.5
EP080/071: Total Petroleum Hydrocarbons								
C10 - C14 Fraction	----	50	µg/L	640	220	290	520	3070
C15 - C28 Fraction	----	100	µg/L	1580	560	790	1510	11000
C29 - C36 Fraction	----	50	µg/L	100	60	70	80	310
^ C10 - C36 Fraction (sum)	----	50	µg/L	2320	840	1150	2110	14400
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	100	µg/L	1150	330	430	940	6010
>C16 - C34 Fraction	----	100	µg/L	1130	480	700	1140	8250
>C34 - C40 Fraction	----	100	µg/L	<100	<100	<100	<100	150
^ >C10 - C40 Fraction (sum)	----	100	µg/L	2280	810	1130	2080	14400
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	1150	330	430	940	6010
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.10	----	----	<0.10	0.36
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.10	----	----	<0.10	<0.10
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.10	----	----	0.13	<0.10
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.10	----	----	<0.10	<0.10
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.39	----	----	0.68	0.44
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.10	----	----	<0.10	<0.10
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.5	----	----	<1.4	<0.5
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.10	----	----	3.04	1.37



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN1034	BN1036	BN1038	BN1039	BN1040
Sampling date / time				28-Jul-2023 09:41	28-Jul-2023 09:41	28-Jul-2023 09:41	28-Jul-2023 09:42	28-Jul-2023 09:42
Compound	CAS Number	LOR	Unit	EB2323324-001	EB2323324-002	EB2323324-003	EB2323324-004	EB2323324-005
				Result	Result	Result	Result	Result
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.10	----	----	1.97	0.61
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.10	----	----	0.96	0.14
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.10	----	----	0.50	<0.10
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.10	----	----	0.15	<0.10
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.10	----	----	<0.10	<0.10
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.10	----	----	<0.10	<0.10
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.10	----	----	<0.10	<0.10
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.10	----	----	<0.10	<0.10
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.25	----	----	<0.25	<0.25
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.10	----	----	<0.10	<0.10
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.25	----	----	<0.25	<0.25
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.25	----	----	<0.25	<0.25
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.25	----	----	<0.25	<0.25
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.25	----	----	<0.25	<0.25
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.10	----	----	<0.10	<0.10
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.10	----	----	<0.10	<0.10
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.10	----	----	<0.10	<0.10
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.10	----	----	<0.10	<0.10



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN1034	BN1036	BN1038	BN1039	BN1040
Sampling date / time				28-Jul-2023 09:41	28-Jul-2023 09:41	28-Jul-2023 09:41	28-Jul-2023 09:42	28-Jul-2023 09:42
Compound	CAS Number	LOR	Unit	EB2323324-001	EB2323324-002	EB2323324-003	EB2323324-004	EB2323324-005
				Result	Result	Result	Result	Result
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids - Continued								
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.10	----	----	<0.10	<0.10
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.10	----	----	<0.10	<0.10
EP231_TOP_P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	0.39	----	----	7.43	2.92
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	0.39	----	----	0.81	0.44
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.01	µg/L	0.39	----	----	7.43	2.92
^ Sum of TOP C4 - C14 as Fluorine	----	0.01	µg/L	0.25	----	----	4.90	1.88
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	----	----	0.05	0.05
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	----	----	0.02	<0.02
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	0.03	----	----	0.17	0.06
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	----	----	<0.02	0.08
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.37	----	----	0.77	0.59
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	----	----	<0.02	<0.02
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	----	----	<0.1	<0.1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	----	----	0.38	0.13
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	----	----	0.79	0.25
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	----	----	0.12	0.06
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	0.04	----	----	0.13	0.07
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.06	----	----	<0.02	<0.04
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	----	----	<0.02	<0.02
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	----	----	<0.02	<0.02



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN1034	BN1036	BN1038	BN1039	BN1040
Sampling date / time				28-Jul-2023 09:41	28-Jul-2023 09:41	28-Jul-2023 09:41	28-Jul-2023 09:42	28-Jul-2023 09:42
Compound	CAS Number	LOR	Unit	EB2323324-001	EB2323324-002	EB2323324-003	EB2323324-004	EB2323324-005
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	----	----	<0.05	<0.02
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	----	----	<0.05	<0.02
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	----	----	<0.14	<0.05
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	----	----	<0.02	<0.02
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	----	----	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	----	----	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	----	----	<0.05	<0.05
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	----	----	<0.05	<0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	----	----	<0.02	<0.02
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	----	----	<0.02	<0.02
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	----	----	<0.05	<0.05
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.06	----	----	1.56	1.06
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.06	----	----	0.17	0.18
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	----	----	<0.05	<0.05
EP231P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	0.44	----	----	4.16	2.53
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	0.40	----	----	0.94	0.65



Analytical Results

Sub-Matrix: TCLP LEACHATE (Matrix: WATER)				Sample ID	BN1034	BN1036	BN1038	BN1039	BN1040
Sampling date / time					28-Jul-2023 09:41	28-Jul-2023 09:41	28-Jul-2023 09:41	28-Jul-2023 09:42	28-Jul-2023 09:42
Compound	CAS Number	LOR	Unit		EB2323324-001	EB2323324-002	EB2323324-003	EB2323324-004	EB2323324-005
					Result	Result	Result	Result	Result
EP231P: PFAS Sums - Continued									
Sum of PFAS (WA DER List)	----	0.01	µg/L		0.44	----	----	4.14	2.45
EP231_TOP_S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		890	----	----	1030	975
13C8-PFOA	----	0.02	%		920	----	----	1000	1100
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		104	----	----	105	100
13C8-PFOA	----	0.02	%		102	----	----	102	101



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN1042	BN1043	BN1044	----	----
Sampling date / time				31-Jul-2023 10:29	31-Jul-2023 10:30	31-Jul-2023 10:35	----	----
Compound	CAS Number	LOR	Unit	EB2323324-006	EB2323324-007	EB2323324-008	-----	-----
				Result	Result	Result	----	----
EG005(ED093)C: Leachable Metals by ICPAES								
Arsenic	7440-38-2	0.1	mg/L	<0.1	<0.1	<0.1	----	----
Cadmium	7440-43-9	0.05	mg/L	<0.05	<0.05	<0.05	----	----
Chromium	7440-47-3	0.1	mg/L	<0.1	<0.1	<0.1	----	----
Copper	7440-50-8	0.1	mg/L	<0.1	<0.1	<0.1	----	----
Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	<0.1	----	----
Nickel	7440-02-0	0.1	mg/L	<0.1	<0.1	<0.1	----	----
Zinc	7440-66-6	0.1	mg/L	27.0	24.3	22.6	----	----
EP080/071: Total Petroleum Hydrocarbons								
C10 - C14 Fraction	----	50	µg/L	2530	2000	1730	----	----
C15 - C28 Fraction	----	100	µg/L	8330	6270	6420	----	----
C29 - C36 Fraction	----	50	µg/L	230	220	230	----	----
^ C10 - C36 Fraction (sum)	----	50	µg/L	11100	8490	8380	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	100	µg/L	2960	2750	2340	----	----
>C16 - C34 Fraction	----	100	µg/L	8360	5880	6190	----	----
>C34 - C40 Fraction	----	100	µg/L	120	110	120	----	----
^ >C10 - C40 Fraction (sum)	----	100	µg/L	11400	8740	8650	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	2780	2670	2280	----	----
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.10	----	<0.10	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.10	----	<0.10	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.10	----	<0.10	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.10	----	<0.10	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.44	----	0.45	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.10	----	<0.10	----	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.5	----	<0.5	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	0.15	----	0.11	----	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN1042	BN1043	BN1044	----	----
Sampling date / time				31-Jul-2023 10:29	31-Jul-2023 10:30	31-Jul-2023 10:35	----	----
Compound	CAS Number	LOR	Unit	EB2323324-006	EB2323324-007	EB2323324-008	-----	-----
				Result	Result	Result	----	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	0.12	----	0.11	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.10	----	<0.10	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.10	----	<0.10	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.10	----	<0.10	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.10	----	<0.10	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.10	----	<0.10	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.10	----	<0.10	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.10	----	<0.10	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.25	----	<0.25	----	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.10	----	<0.10	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.25	----	<0.25	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.25	----	<0.25	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.25	----	<0.25	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.25	----	<0.25	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.10	----	<0.10	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.10	----	<0.10	----	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.10	----	<0.10	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.10	----	<0.10	----	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN1042	BN1043	BN1044	----	----
Sampling date / time				31-Jul-2023 10:29	31-Jul-2023 10:30	31-Jul-2023 10:35	----	----
Compound	CAS Number	LOR	Unit	EB2323324-006	EB2323324-007	EB2323324-008	-----	-----
				Result	Result	Result	----	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids - Continued								
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.10	----	<0.10	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.10	----	<0.10	----	----
EP231_TOP_P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	0.71	----	0.67	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	0.44	----	0.45	----	----
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.01	µg/L	0.71	----	0.67	----	----
^ Sum of TOP C4 - C14 as Fluorine	----	0.01	µg/L	0.46	----	0.44	----	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	0.08	----	0.08	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	----	<0.02	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	0.05	----	0.05	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	----	<0.02	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.46	----	0.45	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	----	<0.02	----	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.3	----	<0.1	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.05	----	<0.02	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	0.04	----	0.04	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	----	0.02	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	0.05	----	0.07	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	----	<0.02	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	----	<0.02	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	----	<0.02	----	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN1042	BN1043	BN1044	----	----
Sampling date / time				31-Jul-2023 10:29	31-Jul-2023 10:30	31-Jul-2023 10:35	----	----
Compound	CAS Number	LOR	Unit	EB2323324-006	EB2323324-007	EB2323324-008	-----	-----
				Result	Result	Result	----	----
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	----	<0.02	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	----	<0.02	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	----	<0.05	----	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	----	<0.02	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	----	<0.05	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	----	<0.05	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	----	<0.05	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	----	<0.05	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	----	<0.02	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	----	<0.02	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	----	<0.05	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	0.17	----	0.14	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	0.07	----	0.06	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	----	<0.05	----	----
EP231P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	0.92	----	0.91	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	0.51	----	0.50	----	----



Analytical Results

Sub-Matrix: TCLP LEACHATE (Matrix: WATER)				Sample ID	BN1042	BN1043	BN1044	----	----
Sampling date / time					31-Jul-2023 10:29	31-Jul-2023 10:30	31-Jul-2023 10:35	----	----
Compound	CAS Number	LOR	Unit		EB2323324-006	EB2323324-007	EB2323324-008	-----	-----
					Result	Result	Result	----	----
EP231P: PFAS Sums - Continued									
Sum of PFAS (WA DER List)	----	0.01	µg/L		0.92	----	0.91	----	----
EP231_TOP_S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		875	----	1140	----	----
13C8-PFOA	----	0.02	%		925	----	1080	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		104	----	106	----	----
13C8-PFOA	----	0.02	%		104	----	106	----	----



Analytical Results

Sub-Matrix: TCLP ZHE LEACHATE
 (Matrix: WATER)

Sample ID

				BN1034	BN1036	BN1038	BN1039	BN1040
Sampling date / time				28-Jul-2023 09:41	28-Jul-2023 09:41	28-Jul-2023 09:41	28-Jul-2023 09:42	28-Jul-2023 09:42
Compound	CAS Number	LOR	Unit	EB2323324-001	EB2323324-002	EB2323324-003	EB2323324-004	EB2323324-005
				Result	Result	Result	Result	Result
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	µg/L	<20	<20	<20	<20	<20
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	<20	<20	<20
[^] C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	<20	<20	<20	<20	<20
EP080: BTEXN								
Benzene	71-43-2	1	µg/L	<1	<1	<1	<1	<1
Toluene	108-88-3	2	µg/L	<2	<2	<2	<2	<2
Ethylbenzene	100-41-4	2	µg/L	<2	<2	<2	<2	<2
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	2	<2	<2	<2	<2
ortho-Xylene	95-47-6	2	µg/L	<2	<2	<2	<2	<2
[^] Total Xylenes	----	2	µg/L	2	<2	<2	<2	<2
[^] Sum of BTEX	----	1	µg/L	2	<1	<1	<1	<1
Naphthalene	91-20-3	5	µg/L	<5	<5	<5	<5	<5
EP080S: TPH(V)/BTEX Surrogates								
1,2-Dichloroethane-D4	17060-07-0	2	%	100	99.5	102	99.2	97.1
Toluene-D8	2037-26-5	2	%	102	100	98.9	99.9	100
4-Bromofluorobenzene	460-00-4	2	%	111	113	107	109	111



Analytical Results

Sub-Matrix: TCLP ZHE LEACHATE
 (Matrix: WATER)

Sample ID

				BN1042	BN1043	BN1044	----	----
Sampling date / time				31-Jul-2023 10:29	31-Jul-2023 10:30	31-Jul-2023 10:35	----	----
Compound	CAS Number	LOR	Unit	EB2323324-006	EB2323324-007	EB2323324-008	-----	-----
				Result	Result	Result	----	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	µg/L	<20	30	<20	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	20	µg/L	50	50	30	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	40	50	30	----	----
EP080: BTEXN								
Benzene	71-43-2	1	µg/L	<1	1	<1	----	----
Toluene	108-88-3	2	µg/L	5	3	<2	----	----
Ethylbenzene	100-41-4	2	µg/L	<2	<2	<2	----	----
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	<2	----	----
ortho-Xylene	95-47-6	2	µg/L	<2	<2	<2	----	----
^ Total Xylenes	----	2	µg/L	<2	<2	<2	----	----
^ Sum of BTEX	----	1	µg/L	5	4	<1	----	----
Naphthalene	91-20-3	5	µg/L	182	78	62	----	----
EP080S: TPH(V)/BTEX Surrogates								
1,2-Dichloroethane-D4	17060-07-0	2	%	97.3	96.0	93.5	----	----
Toluene-D8	2037-26-5	2	%	104	97.6	96.4	----	----
4-Bromofluorobenzene	460-00-4	2	%	114	98.3	98.6	----	----

Analytical Results

Descriptive Results

Sub-Matrix: SOIL

Method: Compound	Sample ID - Sampling date / time	Analytical Results
EA200: AS 4964 - 2004 Identification of Asbestos in Soils		
EA200: Description	BN1038 - 28-Jul-2023 09:41	Grey soil with rock and organic matter.
EA200: Description	BN1043 - 31-Jul-2023 10:30	Brown soil with rock and organic matter.



Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	53	134
Toluene-D8	2037-26-5	60	131
4-Bromofluorobenzene	460-00-4	59	127
EP231_TOP_S: PFAS Surrogate			
13C4-PFOS	----	47	129
13C8-PFOA	----	56	128
EP231S: PFAS Surrogate			
13C4-PFOS	----	76	136
13C8-PFOA	----	78	131

Sub-Matrix: TCLP LEACHATE		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231_TOP_S: PFAS Surrogate			
13C4-PFOS	----	55	131
13C8-PFOA	----	66	128
EP231S: PFAS Surrogate			
13C4-PFOS	----	65	140
13C8-PFOA	----	71	133

Sub-Matrix: TCLP ZHE LEACHATE		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	66	138
Toluene-D8	2037-26-5	79	120
4-Bromofluorobenzene	460-00-4	74	118

Inter-Laboratory Testing

Analysis conducted by ALS Melbourne, NATA accreditation no. 825, site no. 13778 (Chemistry).

(SOIL) EA200: AS 4964 - 2004 Identification of Asbestos in Soils



CERTIFICATE OF ANALYSIS

Work Order : **EB2328891**
Client : **HI QUALITY**
Contact : **EMILY GIBSON**
Address :
Telephone : **07 30595009**
Project : **Treated Solid Waste**
Order number :
C-O-C number : **57361**
Sampler : **EMILY GIBSON**
Site : **Yatala WTS**
Quote number : **EN333 - ALS Compass Sites**
No. of samples received : **10**
No. of samples analysed : **10**

Page : 1 of 28
Laboratory : **Environmental Division Brisbane**
Contact : **Customer Services EB**
Address : **2 Byth Street Stafford QLD Australia 4053**
Telephone : **+61-7-3243 7222**
Date Samples Received : **18-Sep-2023 11:11**
Date Analysis Commenced : **22-Sep-2023**
Issue Date : **03-Oct-2023 16:39**



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
- Descriptive 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
Beatriz Llarinas	Senior Chemist - Inorganics	Brisbane Inorganics, Stafford, QLD
Beatriz Llarinas	Senior Chemist - Inorganics	Brisbane Soil Preparation, Stafford, QLD
Kirsty Watson	Senior Chemist - Organics	Brisbane Soil Preparation, Stafford, QLD
Matt Frost	Assistant Laboratory Manager	Brisbane Organics, Stafford, QLD
Tim Kuo	Approved Asbestos Identifier	Melbourne Asbestos, Springvale, VIC
Timothy Creagh	Senior Chemist - Organics	Brisbane Organics, Stafford, QLD



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.

- EP080 - TRH Volatiles/BTEX: The LOR for 'BN1116' (EB2328891-008) and 'BN1118' (EB2328891-009) has been raised due to matrix interference.
- EP231X - Per- and Polyfluoroalkyl Substances (PFAS): Samples received in 20ml or 125ml bottles have been tested in accordance with the QSM5.3 compliant, NATA accredited method. 60mL or 250mL bottles have been tested to the legacy QSM 5.1 aligned, NATA accredited method.
- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.
- EP071-SV – TRH Semivolatile Fractions Only : Sample 'BN1109' (EB2328891_002) shows poor duplicate results due to heterogeneity. Confirmed by visual inspection.
- EP071-SV – TRH Semivolatile Fractions Only : Sample 'BN1108' (EB2328891_001) shows poor duplicate results due to heterogeneity. Confirmed by visual inspection.
- EP080 – Volatiles TRH/BTEX: Sample EB2329357-008 shows poor matrix spike recovery. Insufficient sample for re-extraction and re-analysis.
- EG005T (Total Metals by ICP-AES): BN1108 (EB2328891-001) shows poor duplicate results due to sample heterogeneity. This has been confirmed by visual inspection.
- EG005T (Total Metals by ICP-AES): EB2329414-019 shows poor duplicate results due to sample heterogeneity. This has been confirmed by visual inspection.
- EG005T (Total Metals by ICP-AES): BN1110 (EB2328891-003) shows poor matrix spike recovery due to sample heterogeneity. This has been confirmed by visual inspection.
- EG005T (Total Metals by ICP-AES): BN1109 (EB2328891-002) shows poor duplicate results due to sample heterogeneity. This has been confirmed by visual inspection.
- It is recognised that EG005T (Total Metals by ICP-AES) is less than EG005C (Leachable Metals by ICP-AES) for some samples. However, the difference is within experimental variation of the methods.
- EP231X (TOP) PFAS TOPA: Particular samples required dilution prior to extraction due to matrix interference. LOR values have been adjusted accordingly.
- EP231X PFAS: Matrix spike recovery not determined due to dilution of primary sample.
- EA200 'Am' Amosite (brown asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)
- EA200 'Trace' - Asbestos fibres ("Free Fibres") detected by trace analysis per AS4964. The result can be interpreted that the sample contains detectable 'respirable' asbestos fibres
- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.
- EA200 Legend
- EA200 'Ch' Chrysotile (white asbestos)
- EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.
- EA200: For samples larger than 30g, the <2mm fraction may be sub-sampled prior to trace analysis as outlined in ISO23909:2008(E) Sect 6.3.2-2
- EA200: 'Yes' - Asbestos detected by polarised light microscopy including dispersion staining.
- EA200: 'No*' - No asbestos found, at the reporting limit of 0.1g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at concentrations estimated to be below 0.1g/kg.
- EA200: 'No' - No asbestos found at the reporting limit 0.1g/kg, by polarised light microscopy including dispersion staining.



- 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.
- EN33: Where leachable PFAS analysis is requested, centrifugation rather than pressure filtration is used as the default approach for removal of particulates, in line with AS 4439.3.



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN1108	BN1109	BN1110	BN1111	BN1112
Sampling date / time				14-Sep-2023 11:02	14-Sep-2023 11:03	14-Sep-2023 11:04	14-Sep-2023 11:04	14-Sep-2023 11:04
Compound	CAS Number	LOR	Unit	EB2328891-001	EB2328891-002	EB2328891-003	EB2328891-004	EB2328891-005
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	6.2	8.3	8.8	11.9	12.2
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	8	9	11	14	10
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	17	14	10	10	8
Copper	7440-50-8	5	mg/kg	60	46	40	42	27
Lead	7439-92-1	5	mg/kg	32	29	26	27	17
Nickel	7440-02-0	2	mg/kg	14	14	11	16	10
Zinc	7440-66-6	5	mg/kg	625	1620	495	1140	1080
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)								
Initial pH	----	0.1	pH Unit	9.1	9.1	9.0	8.4	8.8
After HCl pH	----	0.1	pH Unit	1.8	1.6	1.6	1.7	1.7
Extraction Fluid Number	----	1	-	1	1	1	1	1
Final pH	----	0.1	pH Unit	5.2	5.2	5.3	5.2	5.2
EN33: TCLP Leach - Inorganics/PFAS (Plastic Vessel)								
Initial pH	----	0.1	pH Unit	----	9.1	----	----	----
After HCl pH	----	0.1	pH Unit	----	1.5	----	----	----
Extraction Fluid Number	----	1	-	----	1	----	----	----
Final pH	----	0.1	pH Unit	----	5.2	----	----	----
EN33Z: ZHE TCLP Leach								
Extraction Fluid Number	----	0.1	pH Unit	4.9	4.9	4.9	4.9	4.9
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg	50	140	140	160	120
C15 - C28 Fraction	----	100	mg/kg	2520	3340	3070	3680	2960
C29 - C36 Fraction	----	100	mg/kg	1210	1610	1500	1760	1370
^ C10 - C36 Fraction (sum)	----	50	mg/kg	3780	5090	4710	5600	4450
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg	200	350	330	380	280
>C16 - C34 Fraction	----	100	mg/kg	3340	4390	4030	4830	3870
>C34 - C40 Fraction	----	100	mg/kg	550	800	770	860	660



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN1108	BN1109	BN1110	BN1111	BN1112
Sampling date / time					14-Sep-2023 11:02	14-Sep-2023 11:03	14-Sep-2023 11:04	14-Sep-2023 11:04	14-Sep-2023 11:04
Compound	CAS Number	LOR	Unit		EB2328891-001	EB2328891-002	EB2328891-003	EB2328891-004	EB2328891-005
					Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued									
^ >C10 - C40 Fraction (sum)	----	50	mg/kg		4090	5540	5130	6070	4810
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg		200	350	330	380	280
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	<1	<1
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		----	<0.0002	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg		----	<0.0002	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		----	0.0007	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg		----	<0.0002	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		----	0.0145	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg		----	<0.0002	----	----	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		----	0.003	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg		----	0.0055	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg		----	0.0054	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg		----	0.0024	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg		----	0.0027	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg		----	0.0010	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg		----	0.0007	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg		----	0.0006	----	----	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN1108	BN1109	BN1110	BN1111	BN1112
Sampling date / time				14-Sep-2023 11:02	14-Sep-2023 11:03	14-Sep-2023 11:04	14-Sep-2023 11:04	14-Sep-2023 11:04
Compound	CAS Number	LOR	Unit	EB2328891-001	EB2328891-002	EB2328891-003	EB2328891-004	EB2328891-005
				Result	Result	Result	Result	Result
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	----	<0.0002	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	----	0.0002	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	----	<0.0005	----	----	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	----	<0.0002	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	----	<0.0005	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	----	<0.0005	----	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	----	<0.0005	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	----	<0.0005	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	----	<0.0002	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	----	<0.0002	----	----	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
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	----	----	----
EP231_TOP_P: PFAS Sums								
Sum of PFAS	----	0.0002	mg/kg	----	0.0367	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	----	0.0152	----	----	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN1108	BN1109	BN1110	BN1111	BN1112
Sampling date / time				14-Sep-2023 11:02	14-Sep-2023 11:03	14-Sep-2023 11:04	14-Sep-2023 11:04	14-Sep-2023 11:04
Compound	CAS Number	LOR	Unit	EB2328891-001	EB2328891-002	EB2328891-003	EB2328891-004	EB2328891-005
				Result	Result	Result	Result	Result
EP231_TOP_P: PFAS Sums - Continued								
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.0002	mg/kg	----	0.0367	----	----	----
Sum of TOP C4 - C14 as Fluorine	----	0.0002	mg/kg	----	0.0241	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	----	<0.0002	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	----	<0.0002	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	----	0.0008	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	----	<0.0002	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	----	0.0157	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	----	<0.0002	----	----	----
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	----	0.0003	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	----	0.0004	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	----	0.0004	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	----	0.0008	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	----	0.0004	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	----	<0.0002	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	----	0.0003	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	----	<0.0002	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	----	0.0002	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	----	<0.0005	----	----	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	----	<0.0002	----	----	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN1108	BN1109	BN1110	BN1111	BN1112
Sampling date / time				14-Sep-2023 11:02	14-Sep-2023 11:03	14-Sep-2023 11:04	14-Sep-2023 11:04	14-Sep-2023 11:04
Compound	CAS Number	LOR	Unit	EB2328891-001	EB2328891-002	EB2328891-003	EB2328891-004	EB2328891-005
				Result	Result	Result	Result	Result
EP231C: Perfluoroalkyl Sulfonamides - Continued								
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	----	<0.0005	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	----	<0.0005	----	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	----	<0.0005	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	----	<0.0005	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	----	<0.0002	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	----	<0.0002	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
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	----	0.0028	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	----	0.0036	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	----	0.0013	----	----	----
EP231P: PFAS Sums								
Sum of PFAS	----	0.0002	mg/kg	----	0.0270	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	----	0.0165	----	----	----
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	----	0.0248	----	----	----
EP080S: TPH(V)/BTEX Surrogates								
1,2-Dichloroethane-D4	17060-07-0	0.2	%	95.3	86.8	73.8	77.8	63.1
Toluene-D8	2037-26-5	0.2	%	93.3	83.3	72.4	82.0	61.8
4-Bromofluorobenzene	460-00-4	0.2	%	95.8	97.6	83.5	93.7	71.1
EP231_TOP_S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	----	121	----	----	----
13C8-PFOA	----	0.0002	%	----	104	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN1108	BN1109	BN1110	BN1111	BN1112
Sampling date / time					14-Sep-2023 11:02	14-Sep-2023 11:03	14-Sep-2023 11:04	14-Sep-2023 11:04	14-Sep-2023 11:04
Compound	CAS Number	LOR	Unit		EB2328891-001	EB2328891-002	EB2328891-003	EB2328891-004	EB2328891-005
					Result	Result	Result	Result	Result
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.0002	%		----	110	----	----	----
13C8-PFOA	----	0.0002	%		----	94.0	----	----	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN1113	BN1115	BN1116	BN1118	BN1119
Sampling date / time				14-Sep-2023 11:06	14-Sep-2023 11:06	14-Sep-2023 11:07	14-Sep-2023 11:08	14-Sep-2023 11:08
Compound	CAS Number	LOR	Unit	EB2328891-006	EB2328891-007	EB2328891-008	EB2328891-009	EB2328891-010
				Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)								
Moisture Content	----	1.0	%	13.2	8.7	12.0	12.6	14.2
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	No	----	----	----	No
Asbestos (Trace)	1332-21-4	-	-	No	----	----	----	No
Asbestos Type	1332-21-4	-	--	-	----	----	----	-
Sample weight (dry)	----	0.01	g	61.1	----	----	----	48.8
APPROVED IDENTIFIER:	----	-	--	T. KUO	----	----	----	T. KUO
Synthetic Mineral Fibre	----	-	--	Yes	----	----	----	Yes
Organic Fibre	----	-	--	Yes	----	----	----	Yes
EG005(ED093)T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	10	12	10	11	14
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	9	11	8	11	13
Copper	7440-50-8	5	mg/kg	33	67	48	69	67
Lead	7439-92-1	5	mg/kg	22	29	27	59	31
Nickel	7440-02-0	2	mg/kg	12	13	11	14	12
Zinc	7440-66-6	5	mg/kg	1390	352	386	836	550
EN33: TCLP Leach - Inorganics/Non-Volatile Organics (Glass Vessel)								
Initial pH	----	0.1	pH Unit	7.8	8.7	8.5	8.1	9.1
After HCl pH	----	0.1	pH Unit	1.6	1.6	1.6	1.4	1.6
Extraction Fluid Number	----	1	-	1	1	1	1	1
Final pH	----	0.1	pH Unit	5.3	5.0	5.1	5.2	5.3
EN33: TCLP Leach - Inorganics/PFAS (Plastic Vessel)								
Initial pH	----	0.1	pH Unit	7.4	8.5	----	----	----
After HCl pH	----	0.1	pH Unit	2.3	1.6	----	----	----
Extraction Fluid Number	----	1	-	1	1	----	----	----
Final pH	----	0.1	pH Unit	5.2	5.2	----	----	----
EN33Z: ZHE TCLP Leach								
Extraction Fluid Number	----	0.1	pH Unit	4.9	4.9	4.9	4.9	4.9
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	18	12	<10
C10 - C14 Fraction	----	50	mg/kg	130	200	240	270	210
C15 - C28 Fraction	----	100	mg/kg	2480	3670	4180	3860	3150
C29 - C36 Fraction	----	100	mg/kg	1160	1780	2050	1850	1550



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN1113	BN1115	BN1116	BN1118	BN1119
Sampling date / time					14-Sep-2023 11:06	14-Sep-2023 11:06	14-Sep-2023 11:07	14-Sep-2023 11:08	14-Sep-2023 11:08
Compound	CAS Number	LOR	Unit		EB2328891-006	EB2328891-007	EB2328891-008	EB2328891-009	EB2328891-010
					Result	Result	Result	Result	Result
EP080/071: Total Petroleum Hydrocarbons - Continued									
^ C10 - C36 Fraction (sum)	-----	50	mg/kg		3770	5650	6470	5980	4910
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	10	mg/kg		<10	<10	20	14	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg		<10	<10	20	14	<10
>C10 - C16 Fraction	-----	50	mg/kg		260	420	490	510	410
>C16 - C34 Fraction	-----	100	mg/kg		3250	4820	5520	5030	4130
>C34 - C40 Fraction	-----	100	mg/kg		580	880	1020	970	840
^ >C10 - C40 Fraction (sum)	-----	50	mg/kg		4090	6120	7030	6510	5380
^ >C10 - C16 Fraction minus Naphthalene (F2)	-----	50	mg/kg		260	420	490	510	410
EP080: BTEXN									
Benzene	71-43-2	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	-----	0.2	mg/kg		<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	-----	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg		<1	<1	<1	<1	<1
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		<0.0002	<0.0002	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg		<0.0002	<0.0002	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		0.0003	0.0008	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg		<0.0002	<0.0002	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		0.0075	0.0203	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg		<0.0002	<0.0002	----	----	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		0.003	0.002	----	----	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN1113	BN1115	BN1116	BN1118	BN1119
Sampling date / time				14-Sep-2023 11:06	14-Sep-2023 11:06	14-Sep-2023 11:07	14-Sep-2023 11:08	14-Sep-2023 11:08
Compound	CAS Number	LOR	Unit	EB2328891-006	EB2328891-007	EB2328891-008	EB2328891-009	EB2328891-010
				Result	Result	Result	Result	Result
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	0.0045	0.0032	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0035	0.0040	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	0.0018	0.0019	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	0.0019	0.0028	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	0.0006	0.0010	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	0.0005	0.0008	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	0.0003	0.0008	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.0003	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	----	----	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	<0.0005	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	<0.0005	----	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	<0.0005	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	<0.0005	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	<0.0002	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	<0.0002	----	----	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN1113	BN1115	BN1116	BN1118	BN1119
Sampling date / time					14-Sep-2023 11:06	14-Sep-2023 11:06	14-Sep-2023 11:07	14-Sep-2023 11:08	14-Sep-2023 11:08
Compound	CAS Number	LOR	Unit		EB2328891-006	EB2328891-007	EB2328891-008	EB2328891-009	EB2328891-010
					Result	Result	Result	Result	Result
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids - Continued									
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		<0.0005	<0.0005	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		<0.0005	<0.0005	----	----	----
EP231_TOP_P: PFAS Sums									
Sum of PFAS	----	0.0002	mg/kg		0.0239	0.0379	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		0.0078	0.0211	----	----	----
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.0002	mg/kg		0.0239	0.0379	----	----	----
Sum of TOP C4 - C14 as Fluorine	----	0.0002	mg/kg		0.0156	0.0248	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		<0.0002	<0.0002	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg		<0.0002	<0.0002	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		0.0004	0.0008	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg		<0.0002	<0.0002	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		0.0103	0.0154	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg		<0.0002	<0.0002	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		<0.001	<0.001	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg		0.0002	0.0002	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg		0.0003	0.0004	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg		0.0003	0.0003	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg		0.0006	0.0008	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg		0.0002	0.0003	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg		<0.0002	<0.0002	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg		0.0003	0.0004	----	----	----



Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	BN1113	BN1115	BN1116	BN1118	BN1119
Sampling date / time					14-Sep-2023 11:06	14-Sep-2023 11:06	14-Sep-2023 11:07	14-Sep-2023 11:08	14-Sep-2023 11:08
Compound	CAS Number	LOR	Unit		EB2328891-006	EB2328891-007	EB2328891-008	EB2328891-009	EB2328891-010
					Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued									
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg		<0.0002	<0.0002	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg		<0.0002	0.0003	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg		<0.0005	<0.0005	----	----	----
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg		<0.0002	<0.0002	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg		<0.0005	<0.0005	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg		<0.0005	<0.0005	----	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg		<0.0005	<0.0005	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg		<0.0005	<0.0005	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg		<0.0002	<0.0002	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg		<0.0002	<0.0002	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg		<0.0005	<0.0005	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg		0.0021	0.0018	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg		0.0018	0.0020	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg		0.0010	0.0009	----	----	----
EP231P: PFAS Sums									
Sum of PFAS	----	0.0002	mg/kg		0.0175	0.0236	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg		0.0107	0.0162	----	----	----



Analytical Results

Sub-Matrix: SOIL
 (Matrix: SOIL)

Sample ID

				BN1113	BN1115	BN1116	BN1118	BN1119
Sampling date / time				14-Sep-2023 11:06	14-Sep-2023 11:06	14-Sep-2023 11:07	14-Sep-2023 11:08	14-Sep-2023 11:08
Compound	CAS Number	LOR	Unit	EB2328891-006	EB2328891-007	EB2328891-008	EB2328891-009	EB2328891-010
				Result	Result	Result	Result	Result
EP231P: PFAS Sums - Continued								
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	0.0160	0.0217	----	----	----
EP080S: TPH(V)/BTEX Surrogates								
1,2-Dichloroethane-D4	17060-07-0	0.2	%	76.0	74.6	70.6	69.4	82.7
Toluene-D8	2037-26-5	0.2	%	76.2	75.6	71.8	72.3	80.7
4-Bromofluorobenzene	460-00-4	0.2	%	91.0	86.5	82.6	82.3	90.4
EP231 TOP S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	129	117	----	----	----
13C8-PFOA	----	0.0002	%	107	103	----	----	----
EP231S: PFAS Surrogate								
13C4-PFOS	----	0.0002	%	122	98.0	----	----	----
13C8-PFOA	----	0.0002	%	99.5	94.0	----	----	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN1108	BN1109	BN1110	BN1111	BN1112
Sampling date / time				14-Sep-2023 11:02	14-Sep-2023 11:03	14-Sep-2023 11:04	14-Sep-2023 11:04	14-Sep-2023 11:04
Compound	CAS Number	LOR	Unit	EB2328891-001	EB2328891-002	EB2328891-003	EB2328891-004	EB2328891-005
				Result	Result	Result	Result	Result
EG005(ED093)C: Leachable Metals by ICPAES								
Arsenic	7440-38-2	0.1	mg/L	<0.1	<0.1	<0.1	0.1	<0.1
Cadmium	7440-43-9	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Chromium	7440-47-3	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Copper	7440-50-8	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	7440-02-0	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc	7440-66-6	0.1	mg/L	10.7	25.5	17.5	42.9	59.3
EP080/071: Total Petroleum Hydrocarbons								
C10 - C14 Fraction	----	50	µg/L	240	290	250	230	280
C15 - C28 Fraction	----	100	µg/L	730	920	780	540	670
C29 - C36 Fraction	----	50	µg/L	<50	<50	<50	<50	<50
^ C10 - C36 Fraction (sum)	----	50	µg/L	970	1210	1030	770	950
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	100	µg/L	370	450	390	340	410
>C16 - C34 Fraction	----	100	µg/L	610	780	650	440	550
>C34 - C40 Fraction	----	100	µg/L	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	100	µg/L	980	1230	1040	780	960
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	370	450	390	340	410
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	----	<0.10	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	----	<0.10	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	----	<0.10	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	----	<0.10	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	----	0.11	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	----	<0.10	----	----	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	----	<0.5	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	----	<0.10	----	----	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN1108	BN1109	BN1110	BN1111	BN1112
Sampling date / time				14-Sep-2023 11:02	14-Sep-2023 11:03	14-Sep-2023 11:04	14-Sep-2023 11:04	14-Sep-2023 11:04
Compound	CAS Number	LOR	Unit	EB2328891-001	EB2328891-002	EB2328891-003	EB2328891-004	EB2328891-005
				Result	Result	Result	Result	Result
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	----	<0.10	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	----	<0.10	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	----	<0.10	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	----	<0.10	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	----	<0.10	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	----	<0.10	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	----	<0.10	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	----	<0.10	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	----	<0.25	----	----	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	----	<0.10	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	----	<0.25	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	----	<0.25	----	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	----	<0.25	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	----	<0.25	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	----	<0.10	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	----	<0.10	----	----	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	----	<0.10	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	----	<0.10	----	----	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN1108	BN1109	BN1110	BN1111	BN1112
Sampling date / time				14-Sep-2023 11:02	14-Sep-2023 11:03	14-Sep-2023 11:04	14-Sep-2023 11:04	14-Sep-2023 11:04
Compound	CAS Number	LOR	Unit	EB2328891-001	EB2328891-002	EB2328891-003	EB2328891-004	EB2328891-005
				Result	Result	Result	Result	Result
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids - Continued								
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	----	<0.10	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	----	<0.10	----	----	----
EP231_TOP_P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	----	0.11	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	----	0.11	----	----	----
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.01	µg/L	----	0.11	----	----	----
^ Sum of TOP C4 - C14 as Fluorine	----	0.01	µg/L	----	<0.10	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	----	<0.02	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	----	<0.02	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	----	0.03	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	----	<0.02	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	----	0.30	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	----	<0.02	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	----	<0.1	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	----	<0.02	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	----	0.02	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	----	0.02	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	----	0.04	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	----	<0.02	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	----	<0.02	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	----	<0.02	----	----	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN1108	BN1109	BN1110	BN1111	BN1112
Sampling date / time				14-Sep-2023 11:02	14-Sep-2023 11:03	14-Sep-2023 11:04	14-Sep-2023 11:04	14-Sep-2023 11:04
Compound	CAS Number	LOR	Unit	EB2328891-001	EB2328891-002	EB2328891-003	EB2328891-004	EB2328891-005
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	----	<0.02	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	----	<0.02	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	----	<0.05	----	----	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	----	<0.02	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	----	<0.05	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	----	<0.05	----	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	----	<0.05	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	----	<0.05	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	----	<0.02	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	----	<0.02	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	----	<0.05	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	----	0.13	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	----	0.06	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	----	<0.05	----	----	----
EP231P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	----	0.60	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	----	0.33	----	----	----



Analytical Results

Sub-Matrix: TCLP LEACHATE (Matrix: WATER)				Sample ID	BN1108	BN1109	BN1110	BN1111	BN1112
Sampling date / time					14-Sep-2023 11:02	14-Sep-2023 11:03	14-Sep-2023 11:04	14-Sep-2023 11:04	14-Sep-2023 11:04
Compound	CAS Number	LOR	Unit	EB2328891-001	EB2328891-002	EB2328891-003	EB2328891-004	EB2328891-005	
				Result	Result	Result	Result	Result	
EP231P: PFAS Sums - Continued									
Sum of PFAS (WA DER List)	----	0.01	µg/L	----	0.60	----	----	----	----
EP231_TOP_S: PFAS Surrogate									
13C4-PFOS	----	0.02	%	----	112	----	----	----	----
13C8-PFOA	----	0.02	%	----	92.0	----	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%	----	99.4	----	----	----	----
13C8-PFOA	----	0.02	%	----	96.2	----	----	----	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN1113	BN1115	BN1116	BN1118	BN1119
Sampling date / time				14-Sep-2023 11:06	14-Sep-2023 11:06	14-Sep-2023 11:07	14-Sep-2023 11:08	14-Sep-2023 11:08
Compound	CAS Number	LOR	Unit	EB2328891-006	EB2328891-007	EB2328891-008	EB2328891-009	EB2328891-010
				Result	Result	Result	Result	Result
EG005(ED093)C: Leachable Metals by ICPAES								
Arsenic	7440-38-2	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium	7440-43-9	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Chromium	7440-47-3	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Copper	7440-50-8	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	7440-02-0	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc	7440-66-6	0.1	mg/L	47.2	13.5	20.6	23.8	13.2
EP080/071: Total Petroleum Hydrocarbons								
C10 - C14 Fraction	----	50	µg/L	290	210	410	490	300
C15 - C28 Fraction	----	100	µg/L	680	700	820	950	750
C29 - C36 Fraction	----	50	µg/L	<50	<50	<50	<50	<50
^ C10 - C36 Fraction (sum)	----	50	µg/L	970	910	1230	1440	1050
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
>C10 - C16 Fraction	----	100	µg/L	420	320	570	690	430
>C16 - C34 Fraction	----	100	µg/L	560	600	670	770	630
>C34 - C40 Fraction	----	100	µg/L	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	100	µg/L	980	920	1240	1460	1060
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	420	320	570	690	430
EP231_TOP_A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.10	<0.10	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.10	<0.10	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.10	<0.10	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.10	<0.10	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.10	0.13	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.10	<0.10	----	----	----
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.5	<0.5	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.10	<0.10	----	----	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN1113	BN1115	BN1116	BN1118	BN1119
Sampling date / time				14-Sep-2023 11:06	14-Sep-2023 11:06	14-Sep-2023 11:07	14-Sep-2023 11:08	14-Sep-2023 11:08
Compound	CAS Number	LOR	Unit	EB2328891-006	EB2328891-007	EB2328891-008	EB2328891-009	EB2328891-010
				Result	Result	Result	Result	Result
EP231_TOP_B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.10	<0.10	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.10	<0.10	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.10	<0.10	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.10	<0.10	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.10	<0.10	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.10	<0.10	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.10	<0.10	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.10	<0.10	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.25	<0.25	----	----	----
EP231_TOP_C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.10	<0.10	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.25	<0.25	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.25	<0.25	----	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.25	<0.25	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.25	<0.25	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.10	<0.10	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.10	<0.10	----	----	----
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.10	<0.10	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.10	<0.10	----	----	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN1113	BN1115	BN1116	BN1118	BN1119
Sampling date / time				14-Sep-2023 11:06	14-Sep-2023 11:06	14-Sep-2023 11:07	14-Sep-2023 11:08	14-Sep-2023 11:08
Compound	CAS Number	LOR	Unit	EB2328891-006	EB2328891-007	EB2328891-008	EB2328891-009	EB2328891-010
				Result	Result	Result	Result	Result
EP231_TOP_D: (n:2) Fluorotelomer Sulfonic Acids - Continued								
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.10	<0.10	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.10	<0.10	----	----	----
EP231_TOP_P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	<0.10	0.13	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	<0.10	0.13	----	----	----
Sum of TOP C4 - C14 Carboxylates and C4 - C8 Sulfonates	----	0.01	µg/L	<0.10	0.13	----	----	----
^ Sum of TOP C4 - C14 as Fluorine	----	0.01	µg/L	<0.10	<0.10	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	0.02	0.04	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	0.19	0.36	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.02	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	0.01	0.04	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	----	----	----



Analytical Results

Sub-Matrix: TCLP LEACHATE
 (Matrix: WATER)

Sample ID

				BN1113	BN1115	BN1116	BN1118	BN1119
Sampling date / time				14-Sep-2023 11:06	14-Sep-2023 11:06	14-Sep-2023 11:07	14-Sep-2023 11:08	14-Sep-2023 11:08
Compound	CAS Number	LOR	Unit	EB2328891-006	EB2328891-007	EB2328891-008	EB2328891-009	EB2328891-010
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	----	----	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	----	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	0.07	0.07	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	----	----	----
EP231P: PFAS Sums								
Sum of PFAS	----	0.01	µg/L	0.29	0.53	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L	0.21	0.40	----	----	----



Analytical Results

Sub-Matrix: TCLP LEACHATE (Matrix: WATER)				Sample ID	BN1113	BN1115	BN1116	BN1118	BN1119
Sampling date / time					14-Sep-2023 11:06	14-Sep-2023 11:06	14-Sep-2023 11:07	14-Sep-2023 11:08	14-Sep-2023 11:08
Compound	CAS Number	LOR	Unit		EB2328891-006	EB2328891-007	EB2328891-008	EB2328891-009	EB2328891-010
					Result	Result	Result	Result	Result
EP231P: PFAS Sums - Continued									
Sum of PFAS (WA DER List)	----	0.01	µg/L		0.29	0.53	----	----	----
EP231_TOP_S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		124	108	----	----	----
13C8-PFOA	----	0.02	%		91.5	88.5	----	----	----
EP231S: PFAS Surrogate									
13C4-PFOS	----	0.02	%		92.3	91.8	----	----	----
13C8-PFOA	----	0.02	%		91.2	96.6	----	----	----



Analytical Results

Sub-Matrix: TCLP ZHE LEACHATE
 (Matrix: WATER)

Sample ID

				BN1108	BN1109	BN1110	BN1111	BN1112
Sampling date / time				14-Sep-2023 11:02	14-Sep-2023 11:03	14-Sep-2023 11:04	14-Sep-2023 11:04	14-Sep-2023 11:04
Compound	CAS Number	LOR	Unit	EB2328891-001	EB2328891-002	EB2328891-003	EB2328891-004	EB2328891-005
				Result	Result	Result	Result	Result
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	µg/L	<20	<20	<20	<20	<20
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	<20	<20	<20
[^] C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	<20	<20	<20	<20	<20
EP080: BTEXN								
Benzene	71-43-2	1	µg/L	<1	<1	<1	<1	<1
Toluene	108-88-3	2	µg/L	<2	<2	<2	<2	<2
Ethylbenzene	100-41-4	2	µg/L	<2	<2	<2	<2	<2
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	<2	<2	<2
ortho-Xylene	95-47-6	2	µg/L	<2	<2	<2	<2	<2
[^] Total Xylenes	----	2	µg/L	<2	<2	<2	<2	<2
[^] Sum of BTEX	----	1	µg/L	<1	<1	<1	<1	<1
Naphthalene	91-20-3	5	µg/L	<5	<5	<5	<5	<5
EP080S: TPH(V)/BTEX Surrogates								
1,2-Dichloroethane-D4	17060-07-0	2	%	99.1	98.6	97.3	98.2	98.2
Toluene-D8	2037-26-5	2	%	94.4	94.2	94.2	94.0	92.4
4-Bromofluorobenzene	460-00-4	2	%	112	111	111	112	108



Analytical Results

Sub-Matrix: TCLP ZHE LEACHATE
 (Matrix: WATER)

				Sample ID	BN1113	BN1115	BN1116	BN1118	BN1119
Sampling date / time					14-Sep-2023 11:06	14-Sep-2023 11:06	14-Sep-2023 11:07	14-Sep-2023 11:08	14-Sep-2023 11:08
Compound	CAS Number	LOR	Unit		EB2328891-006	EB2328891-007	EB2328891-008	EB2328891-009	EB2328891-010
					Result	Result	Result	Result	Result
EP080/071: Total Petroleum Hydrocarbons									
C6 - C9 Fraction	----	20	µg/L		<20	<20	<20	<20	<20
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions									
C6 - C10 Fraction	C6_C10	20	µg/L		<20	<20	<30	<30	<20
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L		<20	<20	<20	<20	<20
EP080: BTEXN									
Benzene	71-43-2	1	µg/L		<1	<1	<1	<1	<1
Toluene	108-88-3	2	µg/L		<2	<2	<2	<2	<2
Ethylbenzene	100-41-4	2	µg/L		<2	<2	<2	<2	<2
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L		<2	<2	<2	<2	<2
ortho-Xylene	95-47-6	2	µg/L		<2	<2	5	3	<2
^ Total Xylenes	----	2	µg/L		<2	<2	5	3	<2
^ Sum of BTEX	----	1	µg/L		<1	<1	5	3	<1
Naphthalene	91-20-3	5	µg/L		<5	<5	<5	<5	<5
EP080S: TPH(V)/BTEX Surrogates									
1,2-Dichloroethane-D4	17060-07-0	2	%		99.0	98.0	100	96.8	100
Toluene-D8	2037-26-5	2	%		93.2	88.5	92.7	92.3	94.3
4-Bromofluorobenzene	460-00-4	2	%		115	108	109	109	114

Analytical Results

Descriptive Results

Sub-Matrix: SOIL

Method: Compound	Sample ID - Sampling date / time	Analytical Results
EA200: AS 4964 - 2004 Identification of Asbestos in Soils		
EA200: Description	BN1113 - 14-Sep-2023 11:06	Brown soil with rock, organic matter and synthetic mineral fibres.
EA200: Description	BN1119 - 14-Sep-2023 11:08	Brown soil with rock, organic matter and synthetic mineral fibres.



Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	53	134
Toluene-D8	2037-26-5	60	131
4-Bromofluorobenzene	460-00-4	59	127
EP231_TOP_S: PFAS Surrogate			
13C4-PFOS	----	47	129
13C8-PFOA	----	56	128
EP231S: PFAS Surrogate			
13C4-PFOS	----	76	136
13C8-PFOA	----	78	131

Sub-Matrix: TCLP LEACHATE		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231_TOP_S: PFAS Surrogate			
13C4-PFOS	----	55	131
13C8-PFOA	----	66	128
EP231S: PFAS Surrogate			
13C4-PFOS	----	65	140
13C8-PFOA	----	71	133

Sub-Matrix: TCLP ZHE LEACHATE		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	66	138
Toluene-D8	2037-26-5	79	120
4-Bromofluorobenzene	460-00-4	74	118

Inter-Laboratory Testing

Analysis conducted by ALS Melbourne, NATA accreditation no. 825, site no. 13778 (Chemistry).

(SOIL) EA200: AS 4964 - 2004 Identification of Asbestos in Soils



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